The Power of Reading

Power of Reading

Insights from the Research

Second Edition

Stephen D. Krashen





Portsmouth, NH

Library of Congress Cataloging-in-Publication Data

e. d

Krashen, Stephen D.

Krashen — 2nd ed. The power of reading: insights from the research / by Stephen D.

Includes index. p. cm

ISBN 1-59158-169-9

1. Books and reading. 2. Literacy. I. Title.

Z1003.K917 2004

028'.9—dc22 2004044207

British Library Cataloguing in Publication Data is available.

Copyright @ 2004 by Stephen D. Krashen

express written consent of the publisher. reproduced, by any process or technique, without the All rights reserved. No portion of this book may be

ISBN: 1-59158-169-9 Library of Congress Cataloging Card Number: 2004044207

First published in 2004

A Member of the Greenwood Publishing Group, Inc. www.hu.com Libraries Unlimited, 88 Post Road West, Westport, CT 06881

A division of Reed Elsevier Inc. Heinemann, 361 Hanover Street, Portsmouth, NH 03801

www.Heinemann.com

Printed in the United States of America



Permanent Paper Standard issued by the National Information Standards Organization (Z39.48-1984). The paper used in this book complies with the

4

Contents

	Introductionix
-	The Research1
	The Evidence for FVR1
	In-School Free Reading Programs1
	Reported Free Voluntary Reading8
	Reported Free Reading in a Second Language9
	The Author Recognition Test11
	Read and Test Studies13
	Summary
	The Alternative to Free Reading: Direct Instruction18
	The Complexity Argument18
	Competence without Instruction20
	The Effect of Instruction25
	Other Benefits of Reading28
	The Pleasure of Reading28
	Reading and Cognitive Development35
	Good Thinkers Read More36
	Reading and Writing Apprehension36
	Conclusion37
	An Interpretation37
	Notes40

Contents

Access at Home Results in More Reading	The Cure

Contents

	Do Rewards Work?11
	What Does the Research Say?11
	电电路 电电路 医医电子 医电路 医甲基苯甲酰胺 医甲基苯甲酰胺 医甲基苯甲酰胺 医甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲
	Notes
င့်အ	Other Issues and Conclusions12
	The Limits of Reading12
	Writing1
	Writing Style Comes from Reading1:
	More Writing Does Not Mean Better Writing1
	What Writing Does13
	The Effect of Television
	Does More Television Mean Less Reading?14
	The Language of Television14
	Television and Language Development14
	Television: A Summary14
	Second Language Acquirers14
	Conclusions1
	Notes1
	References1
	Researcher Index1
	Subject Index19

ntroduction

The sophisticated skills demanded by high-level academic or professional work—the ability to understand multiple plots or complex issues, a sensitivity to tone, the expertise to know immediately what is crucial to a text and what can be skimmed—can be acquired only through years of avid reading.—Mary Leonhardt (1998)

Is There a Literacy Crisis?

I first heard about the literacy crisis in 1987 on the *Oprah Winfrey Show*. Oprah Winfrey had four adult "illiterates" as guests, people who, it was assected, were completely unable to read and write. Their stories were touching, and by now, familiar to the reading public. They told how they had been "passed along" in school, surviving by paying careful attention in class and relying on friends. They had evolved strategies for getting through the day; for example, when they went to a restaurant with friends, they would wait to see what other people were ordering, then order the same thing.

Soon after this program, the plight of illiterates was dramatized in a made-for-TV movie starring Dennis Weaver. And soon after that, Stanley and Iris was released, a film telling the story of an adult illiterate. Thanks to television shows such as Oprah Winfrey, these films, and numerous articles in the press and in popular magazines, the public has the impression that a sizable percentage of the public is completely illiterate, that the public schools are graduating hordes of young people who can't read. The public also has the impression that illiteracy is curable by tutoring sessions that teach nonreaders to read aloud—in other words, phonics.

Both impressions are wrong. There is no literacy crisis, at least not the kind of crisis the media have portrayed. There are, first of all, very few people who have been through the educational system who are completely unable to read and write. In fact, literacy, defined simply as the ability to read and write on a basic level, has been steadily rising in the United States for the last hundred years (see, e.g., Stedman and Kaestle 1987).

There is, however, a problem. Nearly everyone in the United States can read and write. They just don't read and write well enough. Although basic literacy has been on the increase for the last century, the demands for literacy have been rising faster. Many people clearly don't read and write well enough to handle the complex literacy demands of modern society. The problem is thus not how to bring students to the second- or third-grade reading level; the problem is how to bring them beyond this.

(It is not clear, by the way, that heavy doses of phonics is the answer even at the beginning level; for extensive discussion of the most recent controversies, see Krashen 2002; Garan 2002; Coles 2003).

The cure for this kind of literacy crisis lies, in my opinion, in doing one activity, an activity that is all too often rare in the lives of many people: reading. Specifically, I am recommending a certain kind of reading—free voluntary reading (henceforth FVR). FVR means reading because you want to. For school-age children, FVR means no book report, no questions at the end of the chapter, and no looking up every vocabulary word. FVR means putting down a book you don't like and choosing another one instead. It is the kind of reading highly literate people do all the time.

I will not claim that FVR is the complete answer. Free readers are not guaranteed admission to Harvard Law School. What the research tells me is that when children or less literate adults start reading for pleasure, however, good things will happen. Their reading comprehension will improve, and they will find difficult, academic-style texts easier to read. Their writing style will improve, and they will be better able to write prose in a style that is acceptable to schools, business, and the scientific community. Their vocabulary will improve, and their spelling and control of grammar will improve.

In other words, those who do free voluntary reading have a chance. The research also tells me, however, that those who do not develop the pleasure reading habit simply don't have a chance—they will have a very difficult time reading and writing at a level high enough to deal with the demands of today's world.

FVR is also, I am convinced, the way to achieve advanced second language proficiency. It is one of the best things a second language acquirer can do to bridge the gap from the beginning level to truly advanced levels of second language proficiency.

This book examines the research on FVR, the ways TVR can be implemented, and issues related to reading, writing, and literacy. The possibilitie free voluntary reading offers individuals and society are great. The goal this book is to show the reader what free voluntary reading has to offer.

Research

7

Free voluntary reading (henceforth FVR) means reading because you want to: no book reports, no questions at the end of the chapter. In FVR, you don't have to finish the book if you don't like it. FVR is the kind of reading most of us do ob-

sessively all the time.

FVR is one of the most powerful tools we have in language education, and, as I argue in this chapter, FVR is the missing ingredient in first language "language arts" as well as intermediate second and foreign language instruction. It will not, by itself, produce the highest levels of competence; rather, it provides a foundation so that higher levels of proficiency may be reached. When FVR is missing, these advanced levels are extremely difficult to attain.

In the following section, the evidence for the efficacy of FVR is briefly reviewed. Following this review, I argue that alternative means of promoting language and literacy development are not nearly as effective.

The Evidence for FVR

In-School Free Reading Programs

In-school free reading programs provide some of the clearest evidence for the power of reading. In these programs, part of the school day is set aside for unrestricted FVR. There are three

□ Free voluntary reading (FVR) is the foundation of language education.

☐ Types of in-school FVR: sustained sitent reading, self-selected reading, extensive reading.

kinds of in-school free reading programs: sustained silent reading, self-selected reading, and extensive reading. In sustained silent reading, both teachers and students engage in free reading for short periods each day (from five to 15 minutes; see Pilgreen 2000). In self-selected reading, free reading is a large part of the language arts program, with teachers holding conferences with students to discuss what was read. In extensive reading, a minimal amount of accountability is required, for example, a short summary of what was read.

Table 1.1:

Results of Reading Comprehension Tests: In-School Free Reading Compared to Traditional Approaches

Greater than 1 year	7 months-1 year	Less than 7 months	Duration
œ	9	00	Positive
2	10	14	No Difference
0	0	ယ	Negative

Table 1.1 summarizes the impact of in-school free reading programs on tests of reading comprehension. In each case, readers were compared to students in traditional programs. These were programs that emphasized assigned reading and direct instruction in grammar, vocabulary, reading comprehension, and spelling.

Two findings clearly emerge from this table: First, in-school free reading programs are consistently effective. In 51 out of 54 comparisons (94 percent), readers do as well as or better than students who were engaged in traditional programs.

Note that a finding of "no difference" between free readers and students in traditional programs suggests that free reading is just as good as traditional instruction, which confirms that free reading results in literacy growth, an important theoretical

point we return to later. As we will see later, there is also strong evidence that free reading is extremely pleasant and results in superior general knowledge. Even if free reading were equivalent to direct instruction in terms of literacy development, it should therefore be the preferred option.

Second, studies that last longer show more consistently positive results. One reason for this finding is apparent to teachers who have used free reading in their classrooms: It takes a while for students to select a book. Table 1.1 suggests that programs that last longer than a year are consistently effective.¹

In-school free reading programs are also effective for vocabulary development, grammar test performance, writing, and oral/aural language ability (Greaney 1970; Krashen 1989).

Only a few in-school reading studies have measured gains in spelling. Of these, Pfau (1967) reported no additional gains in spelling due to supplementary free reading, but Collins (1980) and Hafiz and Tudor (1990) found that those who participated in sustained silent reading made better progress in spelling than those who were in a traditional instruction program. Elley (1991) reports a split-decision: In one group, those who did in-school free reading made better progress in spelling than traditionally taught students, but in another comparison with different students, there was no difference. In no case, however, did traditionally taught students do better.²

Some examples illustrate the findings of in-school free reading. Much of the research summarized in table 1.1 was performed on first language acquirers in elementary school in the United States. The results of the following studies show

☐ In 51 out of 54
comparisons, students
using FVR did as well as
or better on reading tests
than students given
traditional skill-based
reading instruction.

☐ The longer FVR is done, the more consistent the results.

□ Reform-school boys benefited from FVR.

□ Children studying English in Fiji benefited from FVR. that free reading is very effective with other groups as well.

McNeil, in Fader (1976), examined the effects of a free reading program on 60 reform school boys, ages 12–17. The boys were encouraged to read newspapers, magazines, and softcover books, and the reading material was the basis for classroom discussions. After one year, the readers increased their reading comprehension scores (Scholastic Achievement Test) from 69.9 to 82.7 (a gain of 12.8), while comparisons only improved from 55.8 to 60.4 (a gain of 4.6).

Elley and Mangubhai (1983) showed that free reading has a dramatic effect on second language acquirers. In their study, fourth- and fifth-grade students of English as a foreign language were divided into three groups for their 30-minute daily English class. One group had traditional audio-lingual method instruction, a second did only free reading, while a third did "shared reading." Shared reading "is a method of sharing a good book with a class, several times, in such a way that the students are read to by the teacher, as in a bedtime story. They then talk about the book, they read it together, they act out the story, they draw parts of it and write their own caption, they rewrite the story with different characters or events" (Elley 1998, pp. 1-2). After two years, the free reading group and the shared reading group were far superior to the traditional group in tests of reading comprehension, writing, and grammar.

Elley (1991) also showed that free reading had a profound effect on second language acquirers in Singapore. In three studies involving a total of approximately 3,000 children, ages six though nine, and lasting from one to three years, children who followed the "Reading and English Acquisition Program," a combination of shared book experience, language experience, and free reading ("book flood"), outperformed traditionally taught students on tests of reading comprehension, vocabulary, oral language, grammar, listening comprehension, and writing.³

Elley's more recent data (Elley 1998) come from South Africa and Sri Lanka. In all cases, children who were encouraged to read for pleasure outperformed traditionally taught students on standardized tests of reading comprehension and other measures of literacy. Table 1.2 presents the data from South Africa. In this study, EFL students who lived in print-poor environments were given access to sets of 60 high-interest books, which were placed in classrooms, with another 60 made available in sets of six identical titles. The books were used for read-alouds by the teacher, shared reading, and silent reading. Table 1.2 presents data from different provinces; in every case the readers outperformed those in comparison classes, and the gap widened with each year of reading.

Table 1.2 In-School Reading in South Africa

Reading Test Scores

Province	(Grade 4	(Grade 5	(Grade 6
	Read	Non-Read	Read	Non-Read	Read	Non-Read
Eastern Cape	32.5	25.6	44	32.5	58.1	39
Western Cape	36.2	30.2	40.4	34.3	53	40.4
Free State	32.3	30.1	44.3	37.1	47.2	40.5
Natal	39.5	28.3	47	32.3	63.1	35.1

Source: Elley (1998)

☐ Children studying English in Singapore benefited from FVR

□ Reluctant English students in Japan benefited from FVR.

son classes followed the traditional grammar and opinions, and progress. Students in the comparikeep a diary in Japanese, recording their feelings, minimal: Students had to write short synopses and some "accountability" in these classes, but it was ers, both in class and as homework. There was dents in the experimental class read graded readwords in an English text. For one semester, stucloze test, which required them to fill in missing retakers). Students were pre- and posttested with a a required English as a foreign language class at translation-based curriculum. previously failed English (termed Sai Rishu, or class, consisting exclusively of students who had the college level in Japan. It was, however, a special Krashen 1997), experimental students were taking Mason's first study (included in Mason and dents studying English as a foreign language. In extensive reading works very well for older stu-Beniko Mason's studies show that in-school

As presented in table 1.3, even though the extensive readers started the semester with much lower test scores in English reading, they made larger gains than the traditional group and nearly caught up with them by the end of the semester.

Extensive Reading in Japan: Cloze Test Results

	Pretest	Post test
	mean (sd)	mean (sd)
Extensive Reading	22.55 (11.54)	31.40 (11.43)
Traditional	29.70 (8.23)	33.05 (8.24)
Course Mason and V-net (1007)	(1000)	

Source: Mason and Krashen (1997)

Perhaps the most important and impressive finding of this study is the clear improvement in attitude shown by the students who did extensive

3

reading. Many of the once reluctant students of English became eager readers. Several wrote in their diaries that they were amazed at their improvement. Their diaries also indicated that they understood the stories. Also of interest is Mason's observation that students did not progress linearly from easy to hard books. Some students read easy books after reading some more difficult texts, and then returned later to harder books.

In subsequent studies, Mason showed that extensive reading was superior to traditional instruction in programs lasting for a full academic year for both university and community college students. She also demonstrated that extensive readers improve in writing as well as reading (Mason and Krashen 1997).

this time, approximately two hours were devoted dents attended class four hours per day; during each group were limited English proficient. Stuof low reading proficiency. About 30 percent of self-selected reading experience among 200 sixth during the summer to self-selected reading, including 25 minutes in followed a standard language arts curriculum The Island of the Blue Dolphins. Comparison children Rawl's Where the Red Fern Grows and Scott O'Dell's to reading and discussing novels such as Wilson In addition, about 45 minutes per day was devoted most books purchased from the Goosebumps series dent on popular paperbacks and magazines, with the school library. The district invested \$25 per stugraders who had to attend summer school because Shin (2001) examined the impact of a six-week

The readers gained approximately five months on the Altos test of reading comprehension and vocabulary over the six-week period, while

☐ Goosebumps summer was successful.

however, the groups showed equivalent gains. well over one year. On the vocabulary section, comparisons declined. On the Nelson-Denny read-

tive to the usual diet of drills and exercises. offers a more pleasant and more effective alternacrease their reading ability, Shin's program clearly proticient readers to go to summer school to in-In view of the many recent moves to force less

Reported Free Voluntary Reading

been confirmed in many studies (for a detailed review, see Krashen 1988). I present here only a few better and have a more mature writing style. As is examples. the case with in-school free reading, this result has People who say they read more typically read

□ Those who say they read more read and write

reading speed), including gains in reading comprehension between second and fifth grade" ment (reading comprehension, vocabulary, and predictor of several measures of reading achievedren spend their time, reading books was the best school and reported that "among all the ways chilfifth graders to record their activities outside of Anderson, Wilson, and Fielding (1988) asked

more reading of books, magazines, and comics read better. The third best predictor was the amount of reading time in class second: Students in schools in which there was dictors of high reading scores, free reading came in and other background factors. Of 150 possible prewell in reading, controlling for books in the home in 32 countries whose nine-year-olds did especially Postlethwaite and Ross (1992) studied schools

ing comprehension test, the summer readers grew mer reading for a group of children who had just completed grade five. In a careful study in which speaker of English as a second language), those other factors (including gender, poverty, ethnicity, the impact is very substantial, even if only a modest tive, that is, if they could be repeated each summer, gain (about 3 NCE units). If such gains are cumula books is associated with a .15 standard deviation gain in reading comprehension; thus, reading five emotionally disturbed, learning disabled, or a attitude/motivation, and whether the child was amount of additional reading is done mer was associated with a .03 standard deviation Kim calculated that reading one book over the sumcantly greater gains in reading comprehension who read more over the summer made signifihe statistically controlled for a wide variety of Kim (2003) reported similar results for sum-

nese has been demonstrated by Lee and Krasher reported free reading and writing ability in Chiports of amount read and spelling performance (1996, 1997) and Lee (2001). Krashen 1988), and a positive relationship between 1989; for second language acquisition, Polak and (for first language acquisition, Stanovich and West Studies also show a relationship between re-

Reported Free Reading in a Second Language

confirm that those who read more do better on a wide variety of tests. Studies in both second and foreign language

United States were tested on their knowledge of dents of Spanish as a foreign language in the In Stokes, Krashen, and Kartchner (1998), stu-

> percentiles gain. the summer = 3 □ Five extra books over

subjunctive ☐ FVR and the Spanish

a Spanish-speaking country were not significant Spanish; the amount of formal study of Spanish, predictors of subjunctive competence. the subjunctive, and how long subjects had lived in the amount of formal study specifically aimed at was the amount of free voluntary reading done in cant predictor of the ability to use the subjunctive not aware that the subjunctive was the focus of the subjunctive in a real situation, not simply whether used probed subjects' ability to actually use the ish usually find very difficult to master. The test test were included in the analysis. The only signifithey knew the rule. In fact, only subjects who were the subjunctive, a verb form that students of Span-

tive clause were reported for international stu-Gribbons 1996). dents living in the United States (Lee, Krashen, and Similar results for mastery of the English rela-

☐ FVR and the English

relative clause.

Kaplan and Palhinda 1981). that language (Salyer 1987; Janopoulous 1986; more in their second language also write better in Several studies confirm that those who read

scores has been demonstrated by studies done examination, the test of academic English that invery good predictor of performance on the TOEFL and "book reading" (Constantino et al.) scored ing" (Gradman and Hanania) and "free reading" States (Constantino, Lee, Cho, and Krashen 1997): Hanania 1991) as well as those living in the United with those taking the test abroad (Gradman and The relationship between free reading and TOEFL writing, in addition to reading comprehension. petence in listening comprehension, grammar, and ternational students take that assesses their com-Those who reported more "extracurricular read-The amount of free reading reported is also a

□ FVR and the TOEFL

done was not a significant predictor of TOEFL ing that the amount of "extracurricular writing" higher on the TOEFL. Of great interest is the findscores (Gradman and Hanania).

definitions of free reading are used ods of probing reading habits, and different present even when different tests, different methtionship has found a positive correlation, and it is Nearly every study that has examined this relain every study, but it is remarkably consistent. tary reading and literacy development is not large The relationship between reported free volun-

ercises, or perhaps those who did more drills and more also did other things, such as vocabulary exon how much reading people say they do, which are possible also became better readers and thus read more. I for literacy development. Perhaps those who read may or may not be accurate. Second, one can imagproblems with this research. First, the studies rely tary reading studies are impressive, there are some think these possibilities are far-fetched, but they exercises in school did better on reading tests and ine other factors that could have been responsible Although the results of reported free volun-

also unlikely, but it is possible. students to do more drills and exercises. This is reading studies discussed earlier also have this problem—maybe the additional reading inspired One could also argue that the in-school free

The Author Recognition Test

the impact of reading. In the author recognition test, subjects simply indicate whether they recogified the value of a simple procedure for studying Keith Stanovich, in a series of studies, has ver-

> possible but not plausible. literacy development are Other explanations for

superior literacy development have read more and have □ Those who recognize more authors' names

well: Significant correlations have been reported Stanovich (Rodrigo, McQuillan, and Krashen 1996). formance and vocabulary development in Spanish 1998a), and between author recognition test per-Krashen 1996), and Korean (Kim and Krashen test and writing performance in Chinese (Lee and between performance on an author recognition have been confirmed using other first languages as (Cunningham and Stanovich 1990). These results Stanovich 1991; West, Stanovich, and Mitchell stantially with measures of vocabulary (West and recognition test have been shown to correlate sub- thor recognition test was a good predictor of perhension 1993; Lee, Krashen, and Tse 1997), reading comprenize the names of authors on a list. For speakers of English as a first language, scores on the author a foreign language, performance on an English au-(Cipielewski and West 1989), and spelling and Stanovich 1990;

and Krashen 1996), and Spanish speakers (Rodrigo on the author recognition test. This is true for Eng-Cipielewski, and Stanovich 1992), Korean speakers lish speakers (Stanovich and West 1989; Allen, (Kim and Krashen 1998a), Chinese speakers (Lee Those who report reading more also do better

as a short vocabulary recognition test. cantly better on an author recognition test as well ous minutes) or nonreaders. Readers did signifiwere observed to be reading for at least 10 continuand classified them as either readers (those who observed airport passengers waiting for flights between performance on the author recognition served doing. West, Stanovich, and Mitchell (1993) test and the amount of reading subjects were ob-One study also reported a positive correlation

formance of foreign language students on the author recognition test. Kim and Krashen (1998b) Only one study thus far has examined the per-

> reported that for high school students of English as recognition test. addition, those who reported more free reading in formance on an English vocabulary test. English also tended to do better on the author

and similar measures (magazine recognition test, guage development, the author recognition test relation between recreational reading and lanthis area. title recognition test) promise to simplify work in In addition to providing confirmation of the

Read and Test Studies

will be given after they read the text. Rather, readfor the power of reading. In read and test studies, and test studies thus probe "incidental" learning. their spelling of these words has improved. Read all of the meanings of the unfamiliar words or if they are tested to see if they have acquired some or meaning. After they finish reading the passage, ers are encouraged to read the passage for its nor are they told that a vocabulary or spelling test alerted to the presence of these words in the text, meanings are unfamiliar to them. Readers are not subjects read passages containing words whose Read and test studies also provide evidence

whether subjects had acquired just part of the had an important feature: They were sensitive to studies were done at the University of Illinois derson, and Herman 1987). The Illinois researchers texts. Their measures of vocabulary knowledge passages from elementary school textbooks as used elementary school students as subjects and (Nagy, Herman, and Anderson 1985; Nagy, An-Some of the most important read and test

> unfamiliar words in utilize passages with Read and test studies

in word knowledge context, a small increase unfamiliar word is read in □ Each time an typically occurs.

□ Students who read a novel with many unique words actually acquired the meaning of many of those words from context clues alone.

meaning of a target word. Nagy et al. (1985) concluded from their data that when an unfamiliar word was seen in print, "a small but reliable increase of word knowledge" typically occurred (Nagy and Herman 1987, p. 26).

The Clockwork Orange Study

The Clockwork Orange study (Saragi, Nation, and Meister 1978) provides a powerful demonstration of our ability to acquire vocabulary by reading. In this study, adult readers (native speakers of English) were asked to read A Clockwork Orange by Anthony Burgess, a novel that contains 241 words from a slang called nadsat. Each nadsat word is repeated an average of 15 times. Few readers know these words before reading the book. The versions of A Clockwork Orange sold in bookstores have a dictionary in the back, so readers can look up the meanings of the nadsat words.

In this study, subjects were simply asked to read A Clockwork Orange and were told that after they finished it, they would be given a test of comprehension and literary criticism. They were not told to try to learn or remember the nadsat words. What is crucial is that they were given copies of the book without the dictionary in the back. The subjects read the book on their own time and reported finishing it in three days or less. A few days later, subjects were given a multiple-choice test covering 90 of the nadsat words.

A great deal of vocabulary acquisition took place. Scores ranged from 50 percent to 96 percent correct, with an average of 76 percent—subjects picked up at least 45 words, simply by reading a novel.

who did rote memorization forgot words between orized the list did better, but after three weeks were not aware they would be tested on vocabu-Omura and Hiramatsu (1991); Dupuy and Krashen there was no difference between the groups. Those lary. When tested after one week, those who memtained in Animal Farm. One group memorized the ing include Pitts, White, and Krashen (1989); Day, firming that vocabulary can be acquired by readtheir scores the two tests, but the readers actually improved list by rote; the second read the book. The readers ESL students were tested on unknown words con-(2003). In Hermann (2003), two groups of adult (1993); Horst, Cobb, and Meara (1998); and Pulido Second language read and test studies con-

It is clear that some contexts give the reader better clues to the meaning of a word than others do. Nevertheless, research indicates that most contexts are helpful; Beck, McKeown, and McCaslin (1983) found that 61 percent of the contexts they examined in basal readers were of help in acquiring new vocabulary, providing at least some clues to meanings of unfamiliar words, while 31 percent were of no help and 8 percent were "misdirective."

Despite the presence of occasionally unhelpful or misdirective contexts, readers eventually arrive at meanings of many unknown words. The few that escape readers, the few that must be looked up or that readers get completely wrong, are a tiny minority compared to the enormous number successfully acquired.

☐ Most contexts are Thelpful."

□ Reading improves spelling.

spelling

Spelling read and test studies yield similar results (see Krashen 1989 for a detailed review). Each time readers read a passage containing words they cannot spell, they make a small amount of progress in acquiring the correct spelling.

Nisbet's study (1941) is typical. Children ages 11 to 14 read passages containing words they could not spell correctly on a pretest. After reading the passage, the children could spell an average of about one out of 25 of these words. Nisbet found this figure unimpressive and concluded that "intensive reading and study of a passage . . . does lead to some learning of spelling, but this gain is not sufficient . . . to justify the neglect of specific spelling instruction" (p. 11). This may, however, be enough to make a substantial contribution to spelling competence if readers read enough."

The hypothesis that spelling comes from reading is confirmed by an experience familiar to all teachers: Our spelling gets worse when we read misspelled words. A modified read and test study, in fact, confirmed that "reading student essays may be hazardous to one's spelling accuracy" (Jacoby and Hollingshead 1990, p. 357). In this study, subjects read misspelled versions of different words. Even though they read the misspelled words only once, when given a spelling test, the subjects performed significantly worse on the words they had seen misspelled than on those they had seen spelled correctly.

spelling declines as well as the confidence of the

☐ .ff readers read misspelled words, their

Jacoby and Hollingshead (1990) point out that the effect of seeing an incorrectly spelled word just one time was not large. They noted, however, that

much more dramatic results were produced...
by the second author of [the] paper. In the course of collecting the data...she read the incorrectly spelled words a large number of times. As a result of this extended experience with those incorrect spellings, she reports having lost confidence in her spelling accuracy. She can no longer judge spelling accuracy on the basis of a word "looking right." The word might look right because it was one of our incorrectly spelled words. (pp. 356-357)

Summary

☐ In-school FVR rest

in better

reading comprehe
 writing style

vocabulary spelling grammatical

development

In-school free reading studies and "out of school" self-reported free voluntary reading studies show that more reading results in better reading comprehension, writing style, vocabulary, spelling, and grammatical development. Read and test studies confirm that reading develops vocabulary and spelling. Figure 1.1 summarizes the "reading hypothesis."

Figure 1.1 The Reading Hypothesis



Despite these results, it could be argued that reading is only one way to develop literacy. In the following section, we examine one rival hypothesis, the hypothesis that literacy can be developed in another way, by direct instruction.

16

The Alternative to Free Reading: Direct Instruction

combination of two processes: Direct instruction can be characterized as

- sciously learning a rule, word meaning, or spelling been claimed that elementary school children acand then making the rule "automatic" through quire from eight (Nagy and Herman 1987) to more output practice. Skill-building: Skill-building means con-
- scious knowledge of the rule, word, or spelling. rected, students are expected to adjust their con-Error correction: When errors are cor-

complete with FVR as the best method of improving

(skill-based) instruction

is sufficient. Together, the case against instruction is overwhelming. Briefly, there are three arguecepts or are used in slightly different ways." ment of literacy. Each of these reasons, taken alone, rect instruction cannot account for the developments against instruction: There are several compelling reasons why di-

- taught or learned one rule or word at a time (the complexity argument). Language is too vast, too complex to be
- mal instruction (competence without instruction). Literacy development can occur without for-

□ The case against

overwhelming. direct instruction is

pears with time. an effect of instruction, the effect sometimes disap-The impact of direct instruction is typi-

The Complexity Argument

complex to be deliberately and consciously has been made for the acquisition of grammar learned one rule or item at a time. This argument (Krashen 1982), spelling (Smith 1994a), phonics Many scholars have noted that language is too

> and Anderson 1985). 1984), and vocabulary (Smith 1988; Nagy, Herman (Smith 1994b), writing style (Smith 1994a; Krashen

words (Seashore and Eckerson 1940), and it has than 14 (Miller 1977) words per day. about 40,000 (Lorge and Chall 1963) to 156,000 lary. Estimates of adult vocabulary size range from Perhaps the most concrete example is vocabu-

same meaning often refer to slightly different conquately represented by a synonym. As Finegar often, the meaning of a word is not nearly adewords that competent users have acquired. Quite there are also subtle and complex properties of (1999) points out, words that appear to have the Not only are there many words to acquire,

grammatical propertie

cally small or nonexistent. When studies do show subject of "please" is "someone" and not John, but considerable knowledge about its grammatical say, "John told a joke," but not "John told."), as properties. With verbs, for example, this includes fairly straightforward properties, for example, John is the subject of "please" in "John is eager to fact that in the sentence "John is easy to please," the well as more complex properties, for example, the ing such differences, and they are rarely taught. to properly describe the generalizations underlyplease." Professional grammarians have struggled whether they are transitive or intransitive (we can Also, when we acquire a word we acquire

part of the meaning of the word and none of its so cial meanings or grammatical properties. on teaching simple synonyms and thus give only Vocabulary teaching methods typically focus

> one rule or word at a complex to be learned □ Language is too

meaning and complex acquire many words w □ Language users me many nuances of

□ Teaching vocabular lists is not efficient. Th time is better spent

ديد غ

Competence without Instruction

velopment can occur without formal instruction. There is abundant evidence that literacy de worldly" (Wright 1966, p. 142).

curred without skill-building or correction. opment without instruction. Clearly, in these that he could read them and used an associate's liamong the most compelling cases of literacy devel-reading material. He delivered newspapers only so cases, acquisition of vocabulary and spelling or brary card to take books out of a library that was re-

strated acquisition of literacy without direct bought English grammars and found them dull. than children in traditional programs have demon- and I did not even know the English language. Similarly, students in in-school free reading

cent of the total group) mentioned the use of crease their vocabulary, however, about half of the He describes his first attempt to write a letter to Elisaid they had. When asked what they did to in I'd ever learned in school (El-Shabazz 1964, p. 154) vocabulary books those who tried to increase their vocabulary (3 per-54.5 percent mentioned reading. Only 14 percent of their vocabulary since leaving school, 54.5 percent. His life in the streets, however, "erased everything scores than a comparison group of adults did oped them through study. Smith and Supanich ing ability do not generally claim to have devel-When asked if they had made an effort to increase was, in fact, president of his seventh-grade class. that they had significantly larger vocabulary (1984) tested 456 company presidents and reported People with large vocabularies and good writ-

vocabulary books to

vocabularies increase their percentage of those with

farge vocabularies used

Only a small

Some Case Histories

Some impressive case histories strongly suggest that reading alone is enough. Richard Wright ing and writing was disapproved of by family (1966) grew up in an environment in which read

> books he brought home, "branding them as members; his grandmother actually burned the

Moreover, this evidence strongly suggests that white inhalome hearing stories at an early age, thanks to a school-The read and test studies reviewed earlier are from novels. Wright struggled to gain access to teacher (a boarder at his home) who told him stories stricted to whites.

programs (see "In-School Free Reading Pro ported here, Wright credits reading with providgrams," above) who made gains equal to or greater ing his development as a writer: "I wanted to write from novels than from grammars" (1966, p. 275). felt I was getting a better sense of the language Clearly in agreement with the research re-

development. As he describes in his autobiogragreat extent, on fiction, Malcolm X (El-Hajj Malik El-Shabbaz) credited nonfiction with his literacy jah Mohammed: phy, Malcolm X had early success in school. He Although Richard Wright depended, to a

self; it shames even to remember it. My spelling was trying to make it legible and understandable and grammar were as bad, if not worse (p. 169). I practically couldn't read my handwriting mythat first one-page letter to him, over and over. At least twenty-five times I must have written

> not English grammars attributed his language □ Author Richard Wrig development to novels,

himself in prison by □ Malcolm X educated

impression is due entirely to my prison studies went to school far beyond the eighth grade. This or those who read something I've said, will think! me today somewhere in person, or on television The change came in prison. "Many who hear

ing on my bunk. You couldn't have gotten me oul ning of the year, she assigned an essay: of books with a wedge" (1964, p. 173). had, if I was not reading in the library, I was read came a dedicated reader: "In every free moment way, by studying the dictionary, Malcolm X be reading. Building his vocabulary at first the hard These "prison studies" consisted largely of

writer telephoned me from London, asking questions. One was, 'What's your alma mater?' I told him, 'Books' " (1964, p. 179). gave reading the credit: "Not long ago, an English Like Richard Wright, Malcolm X specifically

cases, the acquirers themselves were unaware that mer I went to the library and I started reading and I family language, and in a second language. In both they confirm that language and literacy developthey had made any progress. ment can occur from reading in a "heritage" or The following cases are interesting because

writing style. Segal, L.'s teacher in grade 10, tried South Africa, but had serious problems in English variety of approaches: writing, especially in spelling, vocabulary, and English at home with her parents, who are from 17-year-old 11th-grade student in Israel. L. spoke Segal (1997) describes the case of L.,

her notebook. Nothing worked. L.'s composiing, and tried just copying words correctly in correcting her own mistakes, tried process writwas weak. We conferenced together over format tions were poorly expressed and her vocabulary Error correction proved a total failure. L. tried

> ning, but by the end of six weeks she reverted to misspelling the words she have previously spelt cess. L. performed well in the tests in the begintested her in an unthreatening way during rewords to spell each week for six weeks and little progress. I gave L. a list of five useful and discussed ideas before writing. We made

tor, but there was little improvement In addition, L.'s mother got her a private tu-

Segal also taught L. in grade 11. At the begin-

improvement in writing caused a dramatic □ Summer reading

made good sense. Her vocabulary had inclearly marked. Her ideas were well put and she proved. I was amazed but at the same time were no spelling mistakes. The paragraphs were Before me was an almost perfect essay. There When I came to L.'s composition I stopped still.

ment: She had become a reader over the summer. L. told her, "I never read much before but this sumhabit has continued English was consistently excellent, and her reading just couldn't stop." L.'s performance in grade 11 in Segal discovered the reason for L.'s improve-

medium school in her native Turkey, beginning at English study, and Cohen reports that after only age 12. The first two years were devoted to intensive rich, ready made library of English books at home ... two months, she started to read in English, "as had become an avid reader of English." bookstores. . . . By the first year of middle school l brary and occasionally purchased English books in many books in English as I could get hold of. I had a I became a member of the local British Council's li-Cohen (1997) attended an English-language

□ Summer reading improvement in writing caused a dramatic

Her reading, however, led to an "unpleasani incident" in middle school:

I had a new English teacher who assigned us two compositions for homework. She returned them to me ungraded, furious. She wanted to know who had helped me write them. They were my personal work. I had not even used the dictionary. She would not believe me. She pointed at a few underlined sentences and some vocabulary and asked me how I knew them; they were well beyond the level of the class. I had not even participated much in class. I was devastated. There and then and many years later I could not explain how I knew them. I just did.

Spelling without Instruction

There is excellent evidence that children can proves without learn to spell without instruction. The earliest study showing this was done by Cornman (1902) that adult secon who studied the effect of dropping all spelling in their spelling struction in elementary schools for three year ported that fou (spelling errors were still corrected by teachers majors at the I however). Cornman concluded that the effects of spelling instruction were "negligible" and that uniform instructed students continued to improve in spelling errors in spelling and did just as well as students in previous the curriculum. years' classes and students in other schools. 10

□ Several studies show children can learn to spell

without instruction.

Cornman's results were replicated by Rich ards (1920), who studied 78 children in grades six seven, and eight who went without spelling in struction for one year. Richards reported that 68 percent of these children improved more than on year in spelling, 20 percent made no change, and only 12 percent got worse. An additional replication was done by Kyte (1948), who found that "excellent spellers" who were excused from spelling instruction continued to improve.

Very young children can learn to spell without instruction. Goodman and Goodman (1982) reported that their daughter Kay learned to read and spell before she came to school, without any formal instruction at home. At age six, Kay spelled 58 percent of the words on a third-grade spelling list correctly and recognized the correct spellings of 91 percent of the words.

Several researchers have found that children can spell correctly a substantial percentage of words they have not yet studied in class (Thompson 1930; Curtiss and Dolch 1939; Hughes 1966) and that children improve each year on words they have already studied (Curtiss and Dolch 1939), which is additional evidence that spelling improves without instruction.

Haggan (1991) presented evidence suggesting that adult second language acquirers can improve their spelling without instruction. Haggan reported that fourth-year Arabic-speaking English majors at the University of Kuwait made fewer spelling errors in their writing than first-year English majors, even though little emphasis was put on "systematic, explicit teaching of spelling" (p. 59) in the curriculum.

☐ Adults acquiring
English improve their
spelling without
instruction

The Effect of Instruction

The studies reviewed earlier of in-school free reading programs show that when free reading and direct (traditional) instruction are compared directly, free reading is as good or better, and in long-term studies free reading is a consistent winner. In addition, Snow, Barnes, Chandler, Goodman, and Hemphill (1991) reported no significant correlations between the amount of explicit vocabulary instruction students had and gains in reading comprehension and vocabulary over four

- ☐ FVR is nearly always superior to direct instruction on tests of
- reading
- vocabulary
 writing
- grammar

☐ Almost all studies show little improvement in spelling through direct instruction.

years. Snow et al. also found that the exclusive use of a basal reader or workbook in reading lessons was negatively correlated with gains in reading comprehension, but that the use of a workbook for homework was positively correlated with gains in reading comprehension, a result that conflicts with other results presented in this section.

Although the research on the impact of in school free reading on spelling was not conclusive, there is, however, extensive evidence from other sources showing that spelling instruction has little effect. Rice (1897) claimed to find no correlation between the amount of time children were instructed on spelling and their spelling performance.¹¹

Additional evidence that spelling instruction is not very effective comes from Brandenburg (1919), who reported no improvement in spelling accuracy among college students after their psychology papers were "persistently and clearly" marked for spelling errors in one semester.

Finally, Cook (1912) showed that students have a very hard time learning and applying spelling rules. Cook gave a total of 96 high school and college students a spelling test containing words that exemplified spelling rules the students had studied the previous semester. He found no difference in accuracy among (1) students who said they knew the rules and used the rules while spelling the test words, (2) those who knew the rules but did not use them, and (3) those who did not know the rule at all. Also, the college students did better on the test but the high school students knew more spelling rules, confirming the lack of a relationship between knowing spelling rules and spelling accuracy.²

four. This advantage, however, washed out by when it works, may only succeed in helping children in spelling accuracy as measured by a ahead of uninstructed children in grades three and struction. In Hammill, Larsen, and McNutt (1977), dren learn to spell words that they would have standardized spelling test. Spelling instruction, grades five and six. At this level there was no difstudents who had spelling instruction were clearly however (Krashen 1989), that Thompson's stupected without instruction. I have pointed out, half-year extra growth over and above that exing instruction had a clear effect. In Thompson learned to spell on their own anyway.13 ference between instructed and uninstructed chil-(1930), instruction accounted for approximately a dents put in a huge amount of time in spelling in-I have found only two studies in which spell-

of the 720 words (95 percent minus 77 percent), or during the year, a total of 77 percent. Assuming the minutes per day, or 45 hours per year. Children, about 720 words per year and typically take up 15 logic: Spelling programs, she estimated, cover word took about 20 minutes to learn to spell. 130 words. At 45 hours per year, this means each struction was responsible for mastery of 18 percent children reach 95 percent mastery of the spelling about 65 percent of the words before they are however, have probably acquired the spellings of word learned through direct instruction requires list (an optimistic assumption), this means that intaught and acquire another 12 percent incidentally about 20 minutes of instructional time! Here is her Wilde (1990) estimated that each spelling

A series of studies, dating from 1935, confirms that grammar instruction has no impact on reading and writing (see reviews by Krashen 1984 and Hillocks 1986). Probably the most thorough is the New

☐ When spelling instruction works, it may only be helping children learn to spell words they will learn to spell on their

from reading.

ence on the language growth of typical secondary students" (pp. 17–18). The study of complex gramresult of reading.14 writing); rather, mastery of complex grammar is matical constructions does not help reading (or tional or transformational, has virtually no influ conclusion that English grammar, whether tradiauthors concluded that "it is difficult to escape the also showed no differences among the groups. The chanics, or vocabulary among the groups, and a easily recognized by members of widely different follow-up done one year after the project ended cultures and groups. For example, members of Japreading comprehension, writing style, writing me matter. Cross-cultural studies indicate that flow is grammar. Students were tested every year for sense of self disappear—our sense of time is three groups: One group studied traditional gram. Flow is the state people reach when they are three years. Elley et al. found no differences in altered and nothing but the activity itself seems to transformational grammar, and a third studied of flow, the concerns of everyday life and even the 1976). High school students were divided into mihalyi (1991), who introduced the concept of flow. Zealand study (Elley, Barham, Lamb, and Wyllic Ħ

Other Benefits of Reading

The Pleasure of Reading

an incredible intensity of happiness. (Asimov thoughts, is for some people (me, for instance) ing yourself in the interest of words and own experience, that reading a good book, los-Let me tell you, if you don't know it from your

ever, interesting that there is strong evidence that good for language acquisition; some activities may guage acquisition are enjoyable. Of course, jus pothesis: Pedagogical activities that promote lan ment is no guarantee of effectiveness. It is, how be very enjoyable but may not help at all. Enjoy free voluntary reading is very enjoyable. because an activity is enjoyable does not mean it is In Krashen (1994), I proposed the pleasure hy

enjoyable. But enjoyment

does not guarantee

language acquisition.

acquisition, it is promotes language □ The pleasure

hypothesis: If an activity

English class, a second studied deeply but effortlessly involved in an activity. In when climbing (Massimini, Csikszentmihalyi, and ing (Sato 1992), and rock climbers experience flow anese motorcycle gangs experience flow when rid-Della Fave 1992). The evidence includes work by Csikszent-

sensible man, have a tendency to run dry. Then I which we are told are the unfailing resource of a cape the cares of those around me, as well as escapet al. 1992, p. 68). One of Nell's subjects reported, ately immerse myself in the reading and the probp. 117). This finding is consistent with reports of inflow activity in the world" (Csikszentmihalyi 1991, "is currently perhaps the most often mentioned (Nell 1988, p.232). fly to my book as the opium-smoker to his pipe" bores me, games tire me, and my own thoughts, p. 240). W. Somerset Maugham, quoted in Nell, ing my own cares and dissatisfactions" (Nell 1988, "reading removes me . . . from the . . . irritations of Northern Italy said that when he reads "I immedidividual pleasure readers. A resident in Walse in living . . . for the few hours a day I read 'trash' I eslems I usually worry about disappear" (Massimini had similar comments: "Conversation after a time Of special interest is the finding that reading

guage arts. prefer in-school free reading to traditional lan-A number of studies confirm that students

> "flow" activity. frequently mentioned □ Reading is the most

and one responded that there was no difference. interested in reading this year?" 21 said "more" reading in the classroom?" all 22 responded "no." to the question, "Does your child ever complain of dren reacted to in-school free reading. In response in-school free reading programs how their chil cent) and the teacher reading aloud (62 percent) When asked, "Does your child seem more or less

independent reading. other year, which would you choose?" All 27 chose most pleasurable: assigned readings, self-selected you were to choose your reading program for an completed a year of individualized reading: "If Gray (1969) asked 27 children who had just

more interesting than the comparison group rates dents rated their reading class as significant minutes per day of reading class, the experimenta guage arts activities. While both groups had 4 students prefer free reading to traditional lan graders in Dublin and found clear evidence that their traditional class (table 1.4). ter the eight-month program, the experimental stu material that they could read at their own rate. A group was allowed to choose their own reading Greaney (1970) compared two groups of sixth

□ Students prefer reading to traditional

pedagogy.

Free Reading versus Traditional Language Arts

Rating	Self-selected	Traditional
very interesting	28	00
reasonably interesting	9	13
neutral-boring	ယ	17
(1070)		

Source: Greaney (1970)

ities they enjoyed most in their language arts class graders in 23 different schools which reading activ Ivey and Broaddus (2001) asked 1,765 sixtle

Bailey (1969) asked parents of 22 children in The clear winners were free reading time (63 per-(students could check more than one item).

ond language classes, which do you believe is the "Based on your experience this class and other secassigned reading, and grammar instruction: asked students to compare self-selected reading, included some self-selected reading. McQuillan guage students to a popular literature class that versity-level foreign language and second lanreading, or grammar?" McQuillan (1994) examined reactions of uni-

McQuillan combined them. Of the 49 students, 55 reading, and 16 percent voted for grammar. percent found assigned popular reading more foreign language pleasurable, 29 percent voted for self-selected Because results for both second language and students Were

ature. Additional very positive reactions to free = 39) said they would prefer reading popular literwhich would you prefer to do?" Eighty percent (n reading popular literature and studying grammar, signed reading may have been due to the fact that ported by Rodrigo (1997) and Dupuy (1997, 1998). reading from foreign language students are re-McQuillan also asked: "Given a choice between thus good reading as well as convenient that had been popular with previous students" the assigned readings were "well-liked material (1994, p. 98); those supplied by the instructor were McQuillan noted that the preference for as-

own choice, while their heart rate, muscle activity, skin potential, and respiration rate were measured; sure readers were asked to read a book of their showing why bedtime reading is so pleasant. Plea-Nell (1988) provided interesting evidence

□ Why bedtime reading is so pleasant.

and 11 "almost every night" or "most nights' readers he interviewed, 13 read in bed every nigh reading is arousing, but then it relaxes you. Consist sures reached a level below the baselin they liked a seven-week SSR program: "Of those shut, but a clear decline in arousal was recorded in that bedtime reading is popular. Of 26 pleasur tent with these findings are Nell's results showing (eyes-shut) condition. In other words, bedtime responding (48%), 58% gave the program strong the period just after reading, which for some mea increased, as compared to relaxation with eye ties. Nell found that during reading, arousal was sions "very much," while 38 percent said they enmental arithmetic, and doing visualization activi with eyes shut, listening to white noise, doing arousal during other activities, such as relaxing and Krashen 1993) were very positive about SSR level of arousal while reading was compared to

of 10 in enjoyment, compared to 7.5 for hobbies, 7 adults, book and magazine reading was rated 8.3 ou reading as enjoyable. In their 1985 survey of 2.50 sure of reading: Adult Americans consistently rate 1985, Robinson and Godbey (1997) confirm the plea for television, and 72 for "conversations." In a review of surveys done between 1965 and

middle school principal reports a 50 percent dro riod was over. Petre (1971) reported on the effect school to be very pleasant. Johnson (1965) reporte reading environment" (p. 192). in discipline cases after the school began such the reading break begins is total quietness.... On Maryland: "The most unusual happening when 35-minute "reading breaks" in public schools for more reading time when the free reading pe problems" and children would occasionally as recreational reading "there were no disciplin that when her sixth graders were allowed to d reports confirming that children find reading The research literature is filled with informa-

Sadowski (1980) asked high school students how that they only enjoyed them a little. Similarly, 56 percent reported that they enjoyed the SSR ses-(sustained silent reading): Of Pilgreen's subjects, and called for its elimination" (p. 724). .09% gave the program strong negative criticism praise and asked for its continuation, while only joyed them "some," and only 7 percent reported Pilgreen's high school ESL students (Pilgreen

at least one hour daily in the center" (p. 743). riods were not long enough. The students wanted received many complaints that the fifth-minute peclasses in ensuing years . . . the center counselors dents endorsed the concept and asked for similar and noted: "Almost without exception, the stueighth graders who did free reading for one year, Davis and Lucas (1971) studied seventh and

assignments are completed" (p. 487). reading again as soon as spelling and arithmetic book as soon as they come in from recess, and start do you stop them from reading? Mine take out a problems are solved . . .' . One teacher asked 'How like it because my children like it. All my discipline teachers using self-selection evaluate it by saying 'I Thompson (1956) found that "most of the

ruptive behavior of individuals" (p. 227). Farrell "exerts an inhibiting pressure on potentially diseffect" on fourth, fifth, and sixth graders and that it when the bell rang" (p. 51). ing SSR showed "a reluctance to put (books) aside (1982) noted that junior high school students dur-Oliver (1976) noted that SSR had "a quieting

same time every day, which was very awkward sible reasons SSR flopped. The most compelling to studied the impact of SSR in a high school over one ucation classes, some were in industrial arts, etc. and disruptive. Some students were in physical edme was the fact that SSR was implemented at the cent said they were currently reading a book after likely to be reading after the SSR program; 28 perabout the program (only 19 percent of the students semester. Both students and faculty were negative the program began. Minton discusses several posthe program ended, compared to 55 percent before thought it was an "excellent idea") and were less was not perceived to be pleasant. Minton (1980) point out that in two cases, in-school free reading Before ending this cheerful section, I must

positive attitudes about reading in general. She notes, however, that most of the students had vide additional details about how SSR was done provides the questionnaire used but does not prohad mostly negative attitudes toward SSR. Herbert (1987). Students in grades seven, eight, and nine A second negative report comes from Herbert

for studies of grade three and younger. Yoon inever, results were modest and were only evident responses on attitude questionnaires. In contrast for commentary on the validity and limitations of attitude scales in reading). 15 difference (see Von Sprecken and Krashen 2002 cluded several unpublished doctoral dissertato the testimonials presented in this section, how-SSR showed better attitudes as reflected by their formal questionnaires, which could explain the tions in his review and relied on the results of (2002) revealed that those who participated in A review of several SSR studies by Yoon

Reading and Cognitive Development

Reading and Cognitive Development

and performance on the literature test. Stanovich and literature, and there was a clear relationship cult to find direct evidence. Ravitch and Finn nonverbal ability factors were controlled. of history and literature that Ravitch and Finn students who read more did better on the same test and Cunningham (1992) confirmed that college between the amount of reported leisure reading environment did better overall on tests of history more, read more: Those who lived in a print-richer Know?, found that those 17-year-olds who knew cognitive development, but it is surprisingly diffiused, and this relationship held even when (1987), in their study What Do Our 17-Year-Olds There is little doubt that reading influences

of 30 names of artists, entertainers, explorers, phinonverbal abilities (Stanovich, West, and Harrison sion (West, Stanovich, and Mitchell 1993); and Stanovich created a cultural literacy test, a checklist ous measures of cultural knowledge. West and knowledge, but the amount of formal Bible study 1995) were controlled. Stanovich and Cunningham Stanovich 1991), age, education, exposure to televiother factors, such as SAT scores (West and print exposure did better on this test, even when losophers, and scientists. Those who had more was not. tian adults, found that the amount of voluntary ies. Filback and Krashen (2002), in a study of Chrisknowledge" and a test of science and social stud-Bible reading done was a good predictor of biblical (1993) found similar results for a test of "practical Those who read more also do better on vari-

☐ Those who read n

KNOW MORE.

Good Thinkers Read More

were young environment and did far more reading when they who grew up to become blue-collar workers. The students, with more creative students reporting considered to be creative read more than average future professors lived in a much more print-rich blue-collar background who became college prowith ultimate adult success" (p. 11). Schafer and childhood and adolescence correlates positively reason to believe that reading makes you smarter. fessors with 15 men of very similar background Csikszentmihalyi (1982) compared 15 men of that they read over 50 books per year. Emery and Anastasi (1968) reported that high school students (1988) concluded that "omnivorous reading in great deal and have read a great deal. Simonton Good thinkers, however they are defined, read a Studies of "good thinkers" also give us some

Reading and Writing Apprehension

apprehension enjoy reading more (Daly and however, with reports that those with less writing mastery of the composing process. It is consistent other factors affect writing apprehension, such a est size of the correlation (r = -.21) may be because high school students (see also Lee 2001). The mod writing apprehension questionnaire for Taiwanese tween the amount of reading done and scores on a reported a modest but negative correlation be superior command of the written language. They have less "writing apprehension" because of their Krashen (1997) proposed that those who read more Wilson 1983). Free reading has additional benefits. Lee and

Conclusion

cabulary, grammar, and spelling. In addition, evireading comprehension ability, writing style, vostated: Reading is a powerful means of developing instruction has little or no effect. The conclusion development, and lowers writing apprehension. dence shows that it is pleasant, promotes cognitive struction. Other studies confirm that direct tently shown to be more efficient than direct inwe can draw from these findings can be easily In face-to-face comparisons, reading is consis-

An Interpretation

troversial conclusion: Reading is good for you. The acy development lead to what should be an uncongood readers, develop a good writing style, an ade-Reading is the only way, the only way we become research, however, supports a stronger conclusion: tence, and the only way we become good spellers. quate vocabulary, advanced grammatical compe-Studies showing that reading enhances liter-

one way: by understanding messages, or obtaining early reading development have concluded that we much help. Second, research and theory in other stronger conclusion is correct. First, the major al-"comprehensible input" in a low-anxiety situation have concluded that we acquire language in only Smith 1994b). In my work in language acquisition, I page (Goodman 1982; see also Flurkey and Xu 2003; attempting to make sense of what we see on the "learn to read by reading," that we learn to read by areas come to the same conclusion. Researchers in ternative to reading, direct instruction, is not of There are two reasons for suspecting that this

> Way. Reading is the only

sented in a low-anxiety environment. untary reading is: messages we understand pre-(e.g., Krashen 2003a). This is precisely what free vol-

way, it means we have to reconsider and reanalyze pass and that less fortunate children fail. that privileged children, who grow up with books, instruction, in other words, is merely a test, a test guage this way is testing. Traditional language arts exercises. All we are doing when we teach language and develop literacy directly, with drills and what we are doing when we attempt to teach lan-If this conclusion is true, if reading is the only

drills and exercises is □ Direct instruction with

merely testing.

each word. On Friday, the children are tested on tion, fill-in-the-blank, write three sentences with exercises: Draw a line from the word to the definiwords. During the week they do "skill-building" classes, children are given a list of 20 vocabulary day, in thousands of language and language arts the words. Let me make this very concrete. Every Mon-

A. If he doesn't study, he gets a B. Potter, and Batman Returns. If he studies, he gets an them before, in Choose Your Own Adventure, Harry has read, who grew up with books, he probably knows 15 or 16 of the words already. He has seen If you show the list of 20 words to a child who

did not grow up with books, the situation is very victims of child abuse, they blame themselves." Direct language instruction for these children may he studies, with a heroic effort, he might get a D+. different. He may know five or six of the words. If be nothing more than a test that they fail. And like If you show the list of 20 words to a child who

vocabulary tests; □ Readers pass

nonreaders fail.

cises, more of what does not work. The title of not grow up with books?: more drills and exer-What do we typically do for children who did

An Interpretation

worksheets, workbook pages, and exercises, a sults of his research: "Poor Readers Don't Get to practice that can only increase the gap. Those behind in reading have to do more read well are allowed to do more tree reading. Read Much in Reading Groups." Those who can Richard Allington's 1980 paper summarizes the re

□ Poor readers get more of what doesn't work.

of the poor failed at higher rates than children of deniable social class bias: At every level, children understood that school is a test. Their thorough according to the Schoolboys, are persuaded to professional classes. The parents of those who fail, analysis of failure in Italian schools revealed an unian school system (Schoolboys of Barbiana 1970), blame the children: teenagers who were unable to succeed in the Ital-The Schoolboys of Barbiana, a group of eight

ing so well, it must be that their child is not cut out for studying. "Even the teacher said so. A real gentleman. He asked me to sit down. He work in the field, like us." (p. 27) blessed with an intelligent boy. He will go to ered with red marks. I guess we just weren't showed me the record book. And a test all covsuspect what is going on. . . . If things are not go-The poorest among the parents . . . don't even

come to school already literate. son they gave is that those who are successful the failure of these children elsewhere. One rea-The Schoolboys, however, placed the reason for

students have failed and have left school: erate. But now, all their papers are all correct." first intermediate [grade six], they were truly illitthey see improvement: "When they come into the to eight) feel they are teaching literacy, because What has really happened is that the less literate Teachers in intermediate schools (grades six

The Research

Who is she talking about? Where are the boys she received in the first? The only ones left are those who could write correctly to begin with; they could probably write just as well in the third elementary. The ones who learned to write at home.

out of school.

☐ The less literate are the first to fail and drop

The illiterate she had in the first grade are just as illiterate now. She has simply dropped them from sight. (1970, p. 49).

The problem, the Schoolboys conclude, needs to be solved at school:

At times the temptation to get rid of them [the children of the poor) is strong: But if we lose them, school is no longer school. It is a hospital that tends to the healthy and rejects the sick. It becomes just a place to strengthen the existing differences to a point of no return. (1970, pp. 12–13)

Notes

 The following studies were used to complete able 1.1:

Duration less than seven months:

Positive: Wolf and Mikulecky 1978; Aranha 1985; Gordon and Clark 1961; Holt and O'Tuel 1989 (grade seven), Huser 1967 (grade six); Burley, 1980; Mason and Krashen 1997 (study 1, Extensive Reading); Shin 2001.

No Difference: Sperzl 1948; Oliver 1973, 1976; Evans and Towner 1975; Collins 1980; Schon, Hopkins, and Vojir 1984 (Tempe); Sartain 1960 ("good readers" group); Summers and McClelland 1982 (three groups); Huser 1967 (grades four and five); Holt and O'Tuel 1989 (grade eight); Reutzel and Hollingsworth 1991.

Negative: Lawson 1968; Sartain 1960 ("slow readers" group); San Diego County 1965.

Duration seven months to one year:

Positive: Fader 1976; Elley 1991 (Singapore, P1 survey); Jenkins 1957; Manning and Manning 1984 (peer-interaction group); Bader, Veatch, and Eldridge 1987; Davis 1988 (medium ability readers); Mason and Krashen 1997 (four-year college student study, Extensive Reading); Mason and Krashen 1997 (two-year college student study, Extensive Reading); Lituanas, Jacobs, and Renandya 1999 (Extensive Reading).

No Difference: Manning and Manning 1984 (pure SSR); Manning and Manning 1984 (student-teacher conference group); Schon, Hopkins, and Vojir 1984 (Chandler); Schon, Hopkins, and Vojir 1985 (grades seven and eight); McDonald, Harris, and Mann 1966; Davis and Lucas 1971 (grades seven and eight); Healy 1963; Davis 1998 (high-ability readers)

Duration longer than one year:

Positive: Elley and Mangubhai 1983 (grades four and five); Elley 1991 (Singapore, sample of 512); Elley 1991 (Singapore, P3 survey); Aranow 1961; Bohnhorst and Sellars 1959; Cyrog 1962; Johnson 1965.

No Difference: Cline and Kretke 1980; Elley et . 1976.

In Davis (1988), superior gains were made by the medium-ability group (a full extra year of progress!) but the difference between the readers and comparisons was not statistically significant for the high-ability readers. Nevertheless, the high-ability readers and additional 5 percentile points (five months) over the comparisons. Also, the failure of

the high-ability group to show significant gains can be explained: SSR works best with less mature readers: It is doubtful that readers of this note, already excellent readers, will improve with a few minutes per day of SSR. Cline and Kretke (1980) reported no difference in gains in reading in a long-term study, but subjects were junior high school students who were reading two years above grade level and had probably already established a reading habit.

In Manning and Manning (1984), students who engaged in sustained silent reading made better gains than a comparison group, but the difference was not statistically significant. Sustained silent reading was significantly better than traditional instruction, however, when readers interacted with each other, that is, when they discussed their reading with each other and shared books.

unambiguously attribute the treatment differences domly assigned to the groups. It is impossible to by a different teacher, and students were not ran-Shanahan (2000) claims that "the problem here ment lasted only six weeks and contained only 14 small, especially considering the fact that the treatthe study. Each of the four treatments was offered was not with the statistics, but with the design of hours of reading. In a response to my comment, data presented. It is not clear how the National was not possible to calculate effect sizes from the only that the readers were significantly better. It report the details of the follow-up comparisons, tions. For one measure, the overall F was 2.72 (p < ers in Burley (1980) was "small." Students in SSR Reading Panel concluded that this difference was .05), for the other F = 8.74, (p < .01). Burley does not were compared to students in three other condi-2000) claimed that the advantage shown by readtute of Child Health and Human Development The National Reading Panel (National Insti-

signment was in fact random (Burley 1980, p. 158), and the four teachers were randomly assigned to one of the four groups. In addition, the group that did SSR was superior to three different comparison groups, taught by three different teachers.

only .07. The NRP did not mention this discrepsplit-decision. ancy. I classified the results of this study as a was a substantial .58, but for grade eight it was seven (my calculations), based on posttest means, clearly not significant. The effect size for grade graders. In Holt and O'Tuel's Table 2, however, the nificant for the seventh graders but not the eighth sion. The text also states that the difference was sigsignificantly better on tests of reading comprehenof the article, for the total sample, the readers were seventh and eighth graders. According to the text and O'Tuel (1989) as showing no difference bereading comprehension result for grade seven is tween readers and comparisons in reading comprehension. This study consisted of two samples, The National Reading Panel interpreted Holt

2. Tsang (1996) reported that Hong Kong middle and high school students who participated in an after-school extensive reading program lasting 24 weeks made better gains in writing than comparison students in a math program, and also did better than students who did extra writing. Readers showed better gains in content and language use, but not in vocabulary, organization, or mechanics. Tsang notes that the failure to gain in vocabulary may be due to what was read (graded, pedagogical readers), or to the insensitivity of the writing task to detect gains in vocabulary: Tudor and Hafiz (1989) and Hafiz and Tudor (1990) also

reported no improvement for the variety of vocabulary used in writing after a sustained silent reading experience; the nature of the task and/or restrictions in what was read could explain these results as well. In addition, all of these studies were relatively short term, lasting less than one academic year.

Renandya, Rajan, and Jacobs (1999) examined the progress of 49 Vietnamese government officials who took a two-month intensive English course in Singapore. Their proficiency in English was considered "low to high intermediate" before taking the course.

Part of the course consisted of extensive reading: Students were required to read either 20 books in English or at least 800 pages. Importantly, students were encouraged to read books that they could read without too much difficulty and that were interesting, and were encouraged to read different kinds of books. After reading the books, students wrote short summaries. Teachers gave feedback on the content of the summaries, with little emphasis on writing mechanics. Questionnaire results confirmed that the students found the reading to be interesting, comprehensible, and enjoyable.

Renandya et al. reported that those students who did the most reading in the class made the best gains (r = .386) on a general test of English (listening, reading, grammar, and vocabulary). This predictor survived a multiple regression analysis, which means that it was a significant predictor even when other factors were considered, such as the amount of reading done in English before arriving in Singapore.

Although no control group was used in this study, the results are very suggestive. It is hard to image any other source for the gains than reading

—one could argue, for example, that those who read more were the more motivated students in general and were also those who studied their grammar and vocabulary harder. I have argued, however, that direct grammar study is not particularly effective (e.g., Krashen 2003a). Finally, it could be argued that writing summaries was responsible for the gains. Research reviewed in chapter 3, as well as Tsang's results, above, indicate however that adding writing does not add to the power of reading.

of language must be painful is unfortunately enjoying themselves." The attitude that acquisition the children in the reading sections were "merely other concern raised by some of the adults was that well and find it very difficult to write poorly. Anwell-read people nearly always write acceptably and involuntary. In fact, I think it is fair to say that ventions of writing, and using them is automatic sciously absorbed or "acquired" many of the conhelp it: Thanks to reading, they have subconview is that they do well on tests because they can't better in fact than those who study grammar. My data confirm that the readers do very well on tests, in the reading sections would do on tests. Elley's Some adults were concerned about how well those discussion of reactions to in-school free reading widespread. Elley (1991) also contains some fascinating

4. The National Reading Panel (NRP), supported by the U.S. government, also reviewed studies of in-school reading, and reached the startling conclusion that there is no clear evidence supporting this practice (National Institute of Child Health and Human Development 2000). They were, however, able to find only 14 comparisons, all lasting less than one academic year, between students in in-school free reading programs and

Note

comparison children, devoting only six pages of their massive report to this topic (as compared to approximately 120 pages devoted to research on phonemic awareness and phonics).

Interestingly, in-school reading did not fare badly even in the limited analysis done by the NRP, with in-school readers doing better in four cases, and never doing worse. As discussed above, even a finding of "no difference" suggests that free reading is just as good as traditional instruction and is therefore preferable, because it is more pleasant and provides benefits other than literacy development.

I have also argued (Krashen 2001) that the NRP not only missed many studies, they also mis-interpreted some of the ones they included.

one million words of reading for a fifth-grade child and Takakei 2003): It has been estimated that about account for growth in vocabulary or adult vocabuwords acquired in these studies is not sufficient to able. Comic books, for example, contain at least son, Wilson, and Fielding 1988) and is not difficult dose of reading for middle-class children (Andervocabulary size. One million words is an average sand words per year, enough to account for adult will result in vocabulary growth of several thoulary size (Horst, Cobb, and Meara 1998; Waring words (Parrish and Atwood 1985). Sweet Valley High series, contain 40,000 to 50,000 2,000 words, while teen romances, such as the to attain, if interesting reading material is avail-It has been argued that the number of

Horst, Cobb, and Meara (1998) reported a gain of only five words after subjects read a 20,000-word book. Extrapolated to one million words read, this means growth of only 250 words

ever, was odd: Students followed along in the text while the story was read aloud in class by the and pause. In addition, subjects may have acnot proceed at their own pace and cannot reread story" (p. 211), but this method means readers can al. assure us that students were "absorbed by the sure that students covered the entire text and to teacher in six class sessions. This was done to enin a year. The procedure used in this study, howprevent looking up words while reading. Horst et sures used by Horst et al. did not grant partial lary graded reader was used). Finally, the mea-Takakai, discussed below, as a controlled vocabulong text was used (but unlikely in Waring and which was especially likely in this study because a quired words from the text not included in the test,

study: Their subjects, intermediate adult students of English as a foreign language in Japan, read a getting occurred rapidly in their read and test graded reader of approximately 6,000 words that substitute words (e.g., "yes" became contained 25 words that had been changed into to account for vocabulary growth. The gain recorrect and one correct on these tests, far too little multiple-choice test and five right on a translation after the reading, subjects got about 10 right on a took about one hour. On tests given immediately words appeared from one to 18 times. The reading "beautiful" became "smorty"). The substitute ported by Waring and Takakei, one word after test. But three months later, scores dropped to six 200 words gained from one million words read. reading a 6,000-word book, projects to less than Waring and Takakei (2003) reported that for-"yoot,"

The results of this study suggest that vocabulary acquisition is distributed and incremental; that is, it is best done when encounters with words

a little at a time are spaced or spread out over time, and it happens

apart, Burnstead reported that it would take 24 Subjects simply read a passage (they did not atshown that distributed practice (spaced out over utes. If the readings were 192 hours apart, it would apart, it would take only 10 readings, or 95 minutes of reading. If the readings were 48 hours readings to memorize the poem, a total of 229 min-200-line poem many times, with readings one hour time intervals between readings. If a student read a tempt to memorize it) several times with different Ebbinghouse's original results, is relevant here. practice. Bustead (1943), a replication of time) is far more efficient than massed (all at once) search). Encountering words in natural texts great interest to us, it is especially powerful on deuted exposure can thus triple efficiency, and, of take only eight readings, or 77 minutes. Distribplains the rapid forgetting. (It is likely that many of and the delayed tests, because the words were artiwords during the interval between the treatment sure: Subjects did not encounter any of the target to vocabulary. Waring and Takakei's treatment typically provides, of course, distributed exposure layed tests (see Willingham 2002 for a review of reread over a longer time, a few days, as contrasted matic as in Waring and Takakei, as the book was forgetting, however, would probably not be as dracalled would have faded in three months as well; the nadsat words readers of A Clockwork Orange reficial and do not occur in normal English. This exlasted only one hour, an example of massed expowith one hour. For some kinds of memorization, it has been

studies using tests that give partial credit when subjects get some of the meaning of the word right Swanborn and de Glopper (1999) found that

of complete familiarity" (p. 73). (See Wesche and darkness of entire unfamiliarity and the brightness suggested that "we may 'know' a very large numnot know, and words in between Twadell (1973) edge grows in "small increments." At any given time, there are words we know well, words we do show higher rates of vocabulary learning. This sug-Paribakht 1996 for another way of measuring parber of words with various degrees of vagueness when they are seen in context. Rather, word knowlgests that many words are not learned all at once tial familiarity with vocabulary.) -words which are in a twilight zone between the

due to a reluctance of subjects to guess. Also, parcredit was rarely granted. This could have been choice test; distractors did not overlap in meaning mechanism for partial credit on their multipleanswer. Waring and Takakai did not include a with "a similar meaning," not for a word that contial credit was given when the subject gave a word their translation test, but they report that partial have matched estimates of vocabulary growth. swer. Measures more sensitive to partial credit tially overlapped in meaning with the correct ansearchers allowed partial credit on multiple-choice with the correct option. As noted earlier, other retained some of the semantic features of the correct would have resulted in increased scores that might tests when the subject chose a distractor that par-Waring and Takakai allowed partial credit or

dents use new words in sentences and essays are guage students, writing activities in which stuwith or looked up the meanings of unfamilian in her study, however, subjects were provided reading words in stories. In the reading condition more effective for vocabulary acquisition than Laufer (2003) claims that for adult second lan-

even require speakers of the language, and the langrowth cannot be provided in a classroom context ond language, maintaining that the amount of relying on reading for vocabulary growth in a secclass ends. There is little hope that students will guage student can continue reading long after the classroom and without a teacher. In fact, it doesn't toreign language acquirer can engage in without a recreational reading is one of the few activities a reading necessary for substantial vocabulary with marginal glosses of the unfamiliar words or ent ways of consciously learning words. Adding to words; her study was thus a comparison of differformally. exercises after they finish studying the language continue this is actually an argument for reading, because because so little time is available (2003, p. 273). But Laufer also presents an unusual argument agains looked up the unfamiliar words in the dictionary. the unnaturalness, readers were either provided to engage in sentence production

some words may take more than three sentences. could not successfully acquire unfamiliar words Lithebe, and shakes his head" (p. 443). decision looks out the window to the house of Mrs decision takes down his hat. Then dressed, with inand then with decision puts it into his pocket, with takes paper money from it. He looks at it ruefully, "He takes out an envelope from a drawer, and Consider this example from Schatz and Baldwin three sentences long. Determining the meaning of from them. Passages used, however, were only (1986) were not helpful or "facilitative"; readers 6. Most of the contexts in Schatz and Baldwin

rive at the meaning of "ruefully." With wider context (several pages, or even chapters) and a deeper From just this passage, it is very hard to ar-

the Clockwork Orange study in the text.) better chance. (See, for example, the discussion of pened in the story, the reader would have a much understanding of the character and what has hap-

ers still acquire an impressive amount from origiacquire more vocabulary from altered texts, readate." Although readers in these studies are able to make contexts more "facilitative" or "considernal, unaltered texts (Herman et al. 1987; Konopak prove vocabulary acquisition by rewriting texts to Some experimenters have been able to im-

studies (Gilbert 1934a,1934b,1935) were, to my reading. that spelling knowledge can be increased by Nisbet's, and a similar interpretation. Gilbert's knowledge, the first read and test studies showing See Ormrod (1986) for results similar to

one-semester course in popular literature, which sistent with this interpretation. Rehder (1980) able to expect that assigned reading will have a self-selection (students were allowed to choose in reading comprehension and vocabulary after a reported spectacular gains for high school students teresting and comprehensible. The research is conpositive impact on literacy development if it is insome of the reading from a list). included required reading and a limited amount of 8. What about assigned reading? It is reason-

enjoyment and students in a traditional academic mester between university-level EFL students in sults for students of English as a foreign language. ture class that emphasized reading for content and They compared progress in reading over one seskills class. Those in the popular literature class Hong Kong who participated in a popular litera-Lao and Krashen (2000) reported similar re

rch

read six novels, five assigned and one self-selected. The popular literature group made far better gains in vocabulary and reading rate. These researchers apparently succeeded in assigning reading that was genuinely interesting for their students. (See also McQuillan 1994, discussed in the text.)

books I have to read in school. I do remember algrader told Bintz, "I don't remember much from signed reading to be boring" (p. 611). One 11th own. These secret readers said they "expected asreaders by teachers but who read avidly on their who were considered to be "passive and reluctant" however. Bintz (1993) described several students Both boys were enthusiastic readers on their own, language arts class as "boring and stupid" (p. 514) graders, one boy described the assigned reading in school, and both had enjoyed some of them but thy (1998) "read the books they were assigned in science topics. Sixth graders interviewed by Worreading, however, was assigned reading on social reading program for fifth and sixth graders. The building program was superior to an extensive O'Brian (1931) reported that a traditional skillmost everything from books I choose to read" 'hated' most" (p. 513). Two years later, as eighth But not all assigned reading is compelling

There is, of course, good reason to assign certain books (see "Conclusions" in chapter 3 of this book), but including self-selected reading is important because it ensures that reading is understandable and is for genuine interest.

 Finegan provides this example: The words "vagrant" and "homeless" are synonyms. "Vagrant," however, carries a negative affective meaning, while "homeless" is neutral or even positive (p. 187).

Notes

data using modern statistical analysis of Cornman's data using modern statistical procedures, see Krashen and White (1991). We confirmed that Cornman's conclusions were basically correct: Uninstructed students did just as well as instructed students on spelling words in their own compositions. We found some effect for formal instruction in spelling on some of the tests that focused students on form (words presented in a list, out of context), that encouraged the use of conscious knowledge. This finding is consistent with current language acquisition theory (Krashen 2003a).

11. See Krashen and White (1991) for a reanalysis of these data, which confirmed Rice's claims. As in our reanalysis of Cornman (1902; see note 10, this chapter), spelling instruction had some effect on tests in which students were focused on form.

that "i" comes before "e" except after "c.") rule is new to me; apparently it reminds writers stick as first learned" (1912, p. 322). (The "Alice" gave a version of something taught in earlier years, taught, but nearly all the others who cited anything school] seniors gave the rule substantially as but four had it almost correct . . . Three [high school] freshman cited the rule as recently taught, words (relating to the ei/ei rule) No [high which gave a clue to only one or two of the 11 the word 'Alice' and other mnemonic devices of the ie/ei rule as consciously used relied upon enough, most of the collegians who cited a version version they were recently taught: version they gave was often much simpler than the recall them. Of those who did recall the rules, the students had just studied the rules, many could not the 'Alice' rule, etc. The rule seems more likely to Cook also reported that even though the "Curiously

opment can occur without instruction, confirming the results of earlier studies. results are also strong evidence that spelling devel-Note that Hammill, Larsen, and McNutt's

guage development. limits of direct grammar instruction in second lan-14. See Krashen (2003a) for evidence for the

other interests, but interest in reading remains older. Older children and adolescents have more no decline in interest in reading as children get concluded that contrary to popular opinion there is strong (see also Bintz 1993). time pressure than younger children do, and have viewed studies using reading attitude surveys and Von Sprecken and Krashen (2002) re-

ers" (p. 11). Simonton (1984) did a reanalysis of almost half of the group were "omnivorous readof our age" (subjects of biographies published after and thinking is less clear. Goertzel, Goertzel, and relationship between the amount of reading done ers, as a group, read more than the general populasional journals read regularly and productivity modest .26 correlation between number of profesreading done. Van Zelst and Kerr (1951) reported a 1963 in the Menlo Park Library) and reported that Goertzel (1978) studied 300 "eminent personalities tion does. After a certain point, however, the over-read. Wallas (1926) was aware of this, noting good thinkers do read a lot, but it is possible to ductive scientists read a great deal. Apparently, tivity resulted in a bimodal curve—some less prothat the relationship between reading and producscientists (controlled for age). They also reported (published papers and inventions) in a sample of tion between "achieved eminence" and amount of these data, however, and found only a .12 correla-16. It appears to be the case that good think

interfere with problem solving. that "industrious passive reading" (p. 48) may

at the time. carefully only what was relevant to their interests tween "core" and "peripheral" reading, reading rent research. They distinguished, however, bevisiting the library frequently to keep up with curphysicists and reported that they read a great deal, Brazerman examined the reading habits of top Brazerman (1985) provides support for this idea solve the problem you are currently working on. efficient, that is, reading what you need to read to solve specific problems, selective reading is more ing is clearly helpful, but when one is reading to What appears to be the case is that wide read-

among children in vocabulary size is enormous "disadvantaged" children know (see also Graves children know about 50 percent more words than and Slater (1990) concluded that "mainstream" huge differences among children. White, Graves conservative data, but still conclude that there are 73,200. Other researchers have come up with more 32,000, and for twelfth graders from 28,200 to words known to first graders was from 5,500 to dents. According to Smith, the range of basic Smith (1941) found, in fact, that some first graders Brunett, and Slater 1982. had larger vocabularies than some high school stu-Research confirms that the difference

Cure

77

()

If the arguments presented in the previous chapter are correct, if free voluntary reading is the only way to develop adequate levels of reading comprehension, writing style, vocabulary, grammar, and spelling, the implications are clear: One of the major goals of language education should be to encourage free reading, to make sure it happens. While we have paid lip-service to the value of reading (the shopping bag I got from the market recently proclaimed "Make reading your bag: open books = open doors), there has been only limited real effort in this direction.

free reading.

Access

The most obvious step is to provide access to books. It is certainly true that "you can lead a horse to water but you cannot make him drink." But first we must make sure the water is there. And when it is, horses always eventually drink.

More Access at Home Results in More Reading

The research supports the commonsense view that when books are readily available, when the print environment is enriched, more reading is done. A print-rich environment in the home is related to how much children read; children who read more have more books in the home (Morrow 1983; Neuman 1986; Greaney and Hegarty 1987; McQuillan 1998a; Kim 2003).

☐ One of the major go of language education should be to encourag

early readers" said they grew up in print-rich said they grew up in print-poor environments. All themselves as "reluctant readers" when young hood and adolescents. All 12 who described rospect about their reading habits during childenvironments. 10 who described themselves as "enthusiastic Lao (2003) asked prospective teachers to ret

Better Classroom Libraries Result in More Reading

rooms has been shown to result in more reading. when they were within the children's reach, and ties" by children during free play time. In addition, in more use of books and other "literature activiclasses that previously did not have them resulted ing well-designed library corners in kindergarten Morrow and Weinstein (1982) reported that installhome from the classroom library (Morrow 1982). when teachers allowed the children to take books the library corner were more physically accessible, children did more free reading when the books in Enriching the print environments in class-

public library, they read home, at school, or at the access to more books at □ When children have

Better School Libraries Result in More Reading

eraged 3.8 books read over a four-week period, to 63 percent of the reading done by the children brary read "better" books; 84 percent of the books Moreover, children from the school with the liaveraged exactly double that figure, 7.6 books while children from a school with a school library that children in a school with no school library avknow this for a long time: Cleary (1939) reported a school library results in more reading. We have they selected were on "approved lists," compared Enriching the print environment by means of

children and the amount they reported reading. In between the number of volumes available to the resulted in more reading, a study of libraries and reading in 41 states and the Gaver's data showed a strong correlation (r = .72)cess to classroom collections. My reanalysis of in turn read more than children who only had acreading than children who only had access to cendren who had access to school libraries did more with no library. Gaver (1963) reported that chilfound that better school libraries (more books) tralized book collections (without librarians), who District of Columbia, McQuillan (1998a) also

students did more reading when their teachers creasing library hours about 20 percent increases of books taken out by about 10 percent, and ining the supply of books by 20 percent, according to Planned trips to the library also have an effect about 3.5 percent in elementary school libraries Houle and Montmarquette, increases the number factors affects circulation independently: Increas-(Houle and Montmarquette 1984). Each of these ies that have more books and stay open longer visits more often. took them to the school library on planned library McQuillan and Au (2001) reported that high school loans by 17 percent in high school libraries and Students take more books out of school librar-

was always there and loved to read." "Linda" tells us that her mother got books from ports that her parents were avid readers and read life: "My school library was like a second home. I the school library was especially important in her other sources, such as the public library and that to her, but books were not plentiful at home. One of Lao's (2003) "enthusiastic" readers re-

> organized visits to the circulation, as do more collections and longer □ Larger school librar hours increase

Access to Public Libraries Results in More Reading

Access to public libraries also affects how much children read. Heyns (1978) reported that children who live closer to public libraries read more. Kim (2003) reported a strong relationship between the amount of reading done over the summer by fifth graders and whether students said it was easy to access book at a library.

One of Lao's reluctant readers ("Eileen," in Lao, 2003, described above) who had grown up in a print-poor environment at home ("books were scarce at home... practically non-existent," p. 15) became a reader thanks to the public library. In the fourth grade, she discovered Judy Blume's books, and her reading "took off from there" (p. 16). (See below for a discussion of "home run" book experiences.)

strained by the need to remain quiet. Each child most reported reading more, that reading was eas-It was clear that the children enjoyed their visit; ing at home. Three weeks after the first visit to the during sustained silent reading time and for readproduced a substantial classroom library for use was allowed to take out ten books, which suddenly to explore the library, share books, and not be conwas open to the public. This allowed the children monthly, during school time but before the library school library were taken to the public library ments and who attended a school with a poor grade children who came from print-poor environ-Krashen 1998). In this study, second- and thirdthanks to one visit to a public library (Ramos and ier, and that they wanted to return to the library library, both children and parents were surveyed. Ramos reported dramatic increases in reading

Access

Parents' responses were consistent with the children's' responses and tended to show even more enthusiasm. Table 2.1 presents the details.

Table 2.1

Reactions to Library Visit

the visit:	Child has asked parent to take them to the library since	Would like the library visiting program to continue:	Notice improvement in child's reading: Child spends more time with books:	Pagent survey (n=/5) Children more interested in reading since visiting the library:	Feel reading is easier now:	Reading more since the library visit:	Returned to the library since the visit:	Chid survey $(n = 93)$ First time visited the public library:	
67%		100%	94% 84%	96%	82%	75%	62%	52%	

Source: Ramos and Krashen (1998)

Of course, the implication of this study is not simply to use the public library. The solution must come from school. The school involved in this study was lucky to have a cooperative, well-supplied public library close to the school. Others are not so lucky.

Access to books from any of the sources mentioned above (home, school, public library) will be extremely helpful, and may be enough to guarantee the establishment of a reading habit. Unfortunately many children have access to none of them. Worthy and McKool (1996) studied 11 sixth graders who "hated to read." Nine of the 11 had little access to interesting reading material at home, in the school library, or in their classroom libraries, and none had visited the public library in the year before the interview. The two students who had access to interesting reading were the only two "who read with any degree of regularity" (p. 252). Ironically, even though all were described as reluc-

□ One trip to a public library greatly increase enthusiasm for reading

□ Often, those who "I to read" simply do not have access to books.

tant abou read

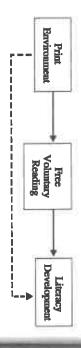
tant readers, all appeared to be quite enthusiastic about some kinds of reading, especially "light reading" (see discussion below).

Figure 2.1 summarizes the relationship between the print environment, free voluntary reading, and the development of literacy. Confirmation that figure 2.1 is correct comes from studies of the effect of the print environment on literacy development directly, indicated by the dotted line in figure 2.1. These studies show consistent results: The richer the print environment, that is, the more reading material available, the better the literacy development. (Research reviewed in Krashen 1985a, 1988, 1989; Snow, Barnes, Chandler, Goodman, and Hemphill 1991; and Foertch 1992 is confirmation.)

☐ The richer the print environment, the better

the literacy development.

Figure 2.1 The Relationship of Print Environment and Free Voluntary Reading to Literacy Development



Although the relationship between the richness of the print environment and literacy development is always positive, the strength of the relationship found by researchers is often modest. One likely reason for this is that there is a missing link, or a "mediating variable": Actual free reading, as illustrated in figure 2.1. A print-rich environment will only result in more literacy development if more reading is done.

Librarie

Pack (2000) provides clear evidence that simply providing access is not always enough. In a study of children's after-school activities, Pack identified a group of children he labeled "library latch-key kids," children whose parents used the public library as a "free source of after-school care" from one to six hours per day. Pack reported that the children did "little more than 'hang out' at the library" (p. 166). They did not read, but passed the entire time in socializing with other children and playing on the computer.

done.

☐ However, a rich prin environment helps only

when more reading is

Providing access to books is thus a necessary, but not sufficient condition for encouraging reading. Other factors act to make free reading more desirable.

Comfort and Quiet

The physical characteristics of the reading environment are important. Morrow (1983) reported that preschool and kindergarten children used the library corner more when it had pillows, easy chairs, and carpets, and when it was partitioned off and quiet.

A particularly fascinating result was reported by Greaney and Hegarty (1987), who found that parents of fifth graders classified as heavy readers allowed their children to read in bed more than parents of fifth graders classified as nonreaders. Of the heavy readers, 72.2 percent of their parents allowed reading in bed, compared to only 44.4 percent of the nonreaders' parents.

Libraries

The first two factors for encouraging reading mentioned in this chapter, access to books and a quiet comfortable place to read, are rarely met in

62

crucially important. chapter 1 are even partly correct, libraries are the source of literacy development presented in access to books, and if the arguments for reading as met is the library. If many students do in fact lack school. One place where these conditions can be many students' lives, in school or outside of

Children Get Their Books from Libraries

several different studies in which 11-year-old elebooks from libraries. Table 2.2 combines data from got their books for free reading. mentary school students were asked where they Children get a substantial percentage of their

ever, that children get much of their reading in others it is the classroom library or public limaterial from some kind of library. brary. There is good agreement in all studies, howthe school library is the most widely used source, There is variation in the data: In some studies,

□ Children get much of

from libraries. their reading material

Sources of Books for 11-Year-Old Children

Study	Percent Getting Books from Libraries
Gaver 1963	30-63
Lamme 1976	81
Ingham 1981	72-99
Swanton 1984	70
Doig and Blackmore 1995	Doig and Blackmore 1995 school lib = 63; class lib = 25, public = 57
Worthy, Moorman, and Turner 1999 High SES	school = 19; class = 3; public = 14
Worthy, Moorman, and Turner 1999 Low SES	school = 34; class = 6; public = 14
Ivey and Broaddhus 2001	Ivey and Broaddhus 2001 school = 55 ; class = 28 , public = 61

Libraries

studies clearly show that teenagers also get many ing to 44 percent among 16- to 18-year-olds), other seven-year-olds reported using the library, declin-Boyes 1986; see esp. p. 260), the percentage of liof their books from libraries (table 2.3). brary use was still very high (86 percent of six- to library use as children get older (Williams and While one study reported a decline in public

Sources of Books for Teenagers

Fairbank et al. 1999	Smart Girl Poll 1999 11-18	Mellon 1987	Study
10-17	11–18	ninth graders	Age
"the library"—66%; "school"—25%	school library—66%; public library—58%	school library—"almost 90%"; public library— girls 66%, boys 41%	Percent Getting Books from Libraries

Better Libraries Result in **Better Reading**

more reading means better reading, better libraries been found to be the case. should be associated with better reading. This has If libraries are a major source of books, and if

reading than children in schools with smaller with larger school libraries made better gains in school libraries, who in turn made better gains braries. than children in schools that had only classroom li-Gaver (1963) reported that children in schools

English reading scores among children in the Fiji 1984) found that the most important predictor of Islands was the size of the school library. "Those Elley and Mangubhai (1979; reported in Elley

with smaller libraries or none at all . . . no school duced consistently higher mean scores than those had high scores without a large library" (p. 293). schools with libraries of more than 400 books pro-

braries was a remarkable study by Lance, Welborn, in terms of the number of books in the library and others states, showing that library quality, defined replicated these results in Colorado and in several ers were controlled. Lance and his colleagues have money invested in school libraries in Colorado was and Hamilton-Pennell (1993), who found that sistently related to reading achievement. the presence and quality of library staffing, is confactors such as poverty and availability of computassociated with higher reading scores, even when A solid confirmation of the positive effect of li-

and staffing) is related to ☐ Library quality (books

reading achievement.

other states that inspired the formation of a read-NAEP fourth-grade reading test scores for 41 in Krashen (1995), an analysis of predictors of the and staffing. This suggestion was confirmed by books: California's school libraries are among the suggest that California's real problem is access to money invested in the schools. The results strongly factors, such as computers and total amount of in the school library. As was the case with the performance was the number of books per student California. Among the best predictors of the NAEP was wrong with how reading was being taught in ing task force and the perception that something fornia's low performance on this test relative to great interest to Californians, because it was Calistates. The results of this analysis should be of worst in the United States, both in terms of books Lance et al. study, this analysis controlled for other McQuillan's work The value of the library was confirmed again

also in other sources of print, books in the home noted that California ranks very low among states and public libraries. in the United States not only in school libraries, but effect of poverty was considered. McQuillan also existed between the overall print environment good predictor of NAEP scores. Most impressive scores in 41 states plus the District of Columbia. that this relationship was still substantial when the were his findings that a very strong relationship McQuillan also found that school libraries were a the home) and reading achievement (r = .68) and (school library, public library, books available in factors relating to NAEP fourth-grade reading McQuillan (1998a) examined a wide variety of

much better than those in less economically develschool libraries made up a large percentage of the special interest to us, however, Elley also found that in wealthier countries have more access to print. Of oped countries: This is, most likely, because children in reading. Not surprisingly, Elley reported that chilgap ("highest quarter" in table 2.4). The school lichildren in the less wealthy countries with the best dren in more economically developed countries read school libraries was a significant predictor of its rank 32 countries and found that the quality of a country's brary can make a profound difference Elley (1992) surveyed reading achievement in

Mean Achievement by School Library Size: 14-Year-Olds

474	454	452	445	less wealthy countries
535	536	525	521	wealthy countries
Highest Quarter	Third Quarter	Second Quarter	Lowest Quarter	

Source: Elley (1992) mean = 500

There is overwhelming evidence that children of poverty have far less access to reading material than do children from higher-income families. For these children, the school library is their only hope, the only possible source available for reading material. Sadly, the evidence thus far shows that school libraries are not succeeding in helping these children in most cases.

Poverty and Access to Books

Smith, Constantino, and Krashen (1996) investigated the availability of print in several communities in the Los Angeles area, including two vastly different ones, Beverly Hills and Watts. The difference in print environment was staggering. Children interviewed in affluent Beverly Hills said that they had an average of 200 books available to them at home (their own or siblings'). Children in low-income Watts, however, averaged less than one book, 4 to be precise. In addition, public libraries in Beverly Hills had twice as many books, and there was much more access to book stores for Beverly Hills children.

Neuman and Celano (2001) found startling differences between two high-income and two low-income print environments. Among their findings were these:

□ Children from high-

income families are "deluged" with books;

children from low-income families must "aggressively and persistently seek them

 There were more places to buy books in the high-income neighborhoods. Neuman and Celano looked at bookstores, drugstores, grocery stores, bargain stores, corner stores, "other" stores, and children's stores. Each low-income neighborhood had four places to buy children's books. One high-income neighborhood had 13 places, the other 11.
 The low-income neighborhood had no place to buy young adult books. One high-income neighborhood had three, the other one.

Librarie

- source of print materials for young children" of titles available. In low-income neighborcome children have 4,000 times the number hoods, "drugstores were the most common print-richest and the print-poorest, high-in-16,455 (13 per child). number of children's book titles available in (p. 15). Young adult materials were "scarce." tles were available (.3 per child), in the other In one high-income neighborhood, 1,597 tiin the other (one title for every 300 children). (one title for every 20 children) in one and 55 the two low-income neighborhoods was 358 wider variety of books in stores. The total High-income children had access to a much Comparing the
- Public libraries in high-income areas had far more juverile books per child. Both libraries in the high-income neighborhood were open two evenings per week (until 8:00 P.M.); the low-income libraries were never open past 6:00 P.M.
- There was more readable environmental print in the high-income neighborhoods. Nearly all environmental signs were readable (96 and 99 percent). In the poor neighborhood, signs were often "graffiti-covered and difficult to decipher" (p. 19); only 66 and 26 percent were in "good readable condition" (p. 19).
- There were more places in public suitable for reading in the high-income neighborhood (e.g., coffee shops with good lighting, seating, friendly staff, etc.). Thus, children in the high-income communities were more likely to see people reading.

Neuman and Celano conclude that "children in middle-income neighborhoods were likely to be deluged with a wide variety of reading materials. However, children from poor neighborhoods would have to aggressively and persistently seek them out" (p. 15).

With gigantic differences such as these, it is hard to argue that children of poverty need more direct instruction in the form of phonemic awareness and phonics exercises. Our first priority is to make sure these children have something to read.²

Di Loreto and Tse (1999) found substantial differences in the children's section of public libraries in high-income Beverly Hills and working class Santa Fe Springs. The Beverly Hills library contained many more children's books and magazines, and had an impressive staff dedicated to children's literature, while the Santa Fe Springs library had no staff especially for the children's section (table 2.5).

Comparison of Children's Section of Public Libraries in Two Communities

0	20	13,000	16,000	Santa Fe Springs 16,000
12	30	60,000	32,000	Beverly Hills
Staff in Children's Section	Children's Magazines	Books	Population Books	

Source: Di Loreto and Tse (1999)

What About School?

Poverty per se is of course devastating. But schools can counter the effects of poverty in at least one area: access to books. Recall that McQuillan (1998a) found that the relationship between access

Libraries

to books and reading achievement held even when the effects of poverty were statistically controlled (see also Lance's studies, discussed above, as well as Roberts, Bachen, Hornby, and Hernandez-Ramos 1984, Table 3B). Thus, while it is true that children of poverty have less access to books, given two groups of such children, the group provided with more access to books will show more literacy development.

Thus far school has done little. In fact, school has not only failed to level the playing field, it has made the disparity worse.

Children from High-Income Families Go to Schools with Better Classroom Libraries

In our Beverly Hills/Watts comparison (Smith et al. 1996), we found that the classroom libraries we inspected in Beverly Hills schools averaged about 400 books; those in Watts, only about 50.

Duke (2000) reported that classroom libraries for first graders in high-income areas averaged 33 books and magazines per child, compared to 18 per child in low-income neighborhoods. During the year, an average of 19 books and magazines per child were added to the high-income libraries, but only 10 were added to classroom libraries in schools in low-income areas. Duke also noted that books in low-income classroom libraries "appeared to be older" (p. 475, n.3).

High-income area classrooms had more books on display. These classroom libraries had an average of 21 books on "full display" at the beginning of the year, with 60 more on full display over the course of the year, compared to 10 on full display at the beginning of the year in low-income classroom libraries, with an average of 16 more displayed during the year.

Children from High-Income Families Have Access to Better School Libraries

three times as many books as those in Watts (Smith Beverly Hills school libraries have two to

and 10) and were open more days (both were open staffing was related to higher reading scores. and his colleagues found that the quality of library with a master's degree. Neither low-income school Both high-income school libraries had a librarian per week for school libraries in low-income areas). five days per week, compared to four and two days books per child (18.9 and 25.7, compared to 12.9 libraries In high-income neighborhoods had more library had a certified librarian. Recall that Lance Neuman and Celano (2001) found that school

children to take books home. allowed to take books home. Seven out of the 15 pendently and as a class, and are more likely to be visit the school library more frequently, both indehigh-achieving schools in affluent areas are able to McQuillan (1997) reported that students in California study, LeMoine, Brandlin, O'Brian, and low-achieving schools they studied did not allow The disparity extends to library services. In a

served few poor children had more books than the school libraries they investigated, the six that braries in New York State, reporting that of the 12 six that served many poor children. (1995) have reported similar findings for school li-Allington, Guice, Baker, Michaelson, and Li

□ Children who live in

schools with better neighborhoods go to high-income

classroom and school

books, and in agreement with LeMoine et al in schools serving poorer children had fewer Allington et al. also found that classroom libraries In agreement with Smith et <u>2</u> (1996),

mon in these buildings for children to have relaschool had such a restriction, and it was more comvisit). Two schools barred children from taking lieral schools also restricted the number of titles that classroom schedule" (p. 24). day and, in some cases, before and after the regular tively open access to the library throughout the brary books out of the building! No low-poverty children could borrow (usually one or two per was usually restricted to a single weekly visit. Sevserving many poor children access to the library (1996), Allington et al. reported that "in the schools

groups, based on eligibility for free and reduced pendent on libraries, especially school libraries: 63 was divided into higher- and lower-income users: 44 percent said they usually got their readand Turner (1999) examined access to reading for percent of the children from higher-income utilized the school library, as compared to 40 percent of the lower-income children, for example, lunch. The lower-income children were more deing material from some kind of library. The sample thy et al. found that the children were active library agreement with other studies (see table 2.1), Wor-419 sixth graders in the Austin, Texas, area. In lower-income families do not. Worthy, Moorman, the reading material they like, but children from dren from higher-income families have access to amilies The disparity extends to content as well. Chil-

novels became popular). Worthy et al. then investibooks (this study was done before the Harry Potter scary books (R.L. Stine, Stephen King) and comic regardless of reading ability and gender, were liked to read. The top preferences for all children, were available in three of the school libraries that gated whether these kinds of reading materials Worthy et al. asked the children what they

able. Because of their popularity, the more recent available." Scary books were "moderately" availdependent on the school and classroom libraries, what they want to read outside of school; children Children from higher-income families can get als usually used their own money to buy them or contained more than a handful of such materials" reading'), fewer than one third of the classrooms dents' preferences and most did not object to books releases were usually checked out. Nor was prethese children said they liked were "largely unwhich often do not include what they really want from lower-income families often cannot and are asked students to donate their used books" (p. 23). like Goosebumps ("I'm just thrilled that they're most teachers were aware of many of their stuferred reading available in classrooms: "While served these children. The comics and magazines (p. 22). Moreover, "teachers who had such materi-

□ Classroom and school

area schools are more libraries in high-income

likely to have what

children want to read.

ans regard themselves as "guardians of good vides extensive documentation that many librari-Space Cadet" (Dirda 2003, p. 59). Nell (1988) prochael Dirda, at age 10, noticed it "How strange, it what people want to read is of course not new. Mifused to stock the Hardy Boys or Tom Corbett, the seemed to me, that the high-minded librarians re-The tendency of some libraries to exclude

Libraries and Second Language Acquirers

tremely efficient means of developing literacy in ing literacy in the primary language is an exacquiring English as a second language. Develop-1996, 2003c). In order to become good readers in the second language (Cummins 1981, Krashen The library situation is even worse for those

Libraries

one-fifth the national average (Elley 1994). Once Spanish (compare this with the national average of braries had approximately one book per child in again, school does not solve the problem: In the bital books, not age-appropriate books for children) only 26 books in their home (this figure refers to toficient children in school in the United States had United States; Miller and Shontz 2001). 18 books per child in elementary schools in the lingual schools studied by Pucci (1994), school li-Spanish-speaking family with limited English proread in the primary language. In 1991, the average (Ramirez, Yuen, Ramey, and Pasta 1991), about the primary language, however, children need to

language.

English, but there is c

little to read in the pri

development of litera language helps the

ability in the primary □ Developing readin.

brary can offer, and that parents of ESL students braries and how they operated (Constantino 1995). were nearly completely unaware of what was in lidents often have little idea of what the school li-Constantino (1994) has reported that ESL stu-

Money for Libraries:

Who Is Paying Now?

with the largest collections of trade books were Allington et al. (1995) reported that in their survey of schools in New York State, "classrooms most of the books" (pp. 23-24). those where teachers reported they purchased

situation: a much greater investment by the school credit. There is only one solution to this intolerable read. If they do, and students progress in literacy, not buy books for their students, there is nothing to this are in an impossible ethical dilemma; if they do with books from their own funds. Teachers who do the basal series and unused software gets the A great many teachers supply their students

☐ A small percentage of what we spend on technology and testing would ensure access to books for all children.

The money is there. A fraction of the investment we are willing to make for technology and testing will provide access to good reading material for all children.

A Modest Proposal

An article in the Los Angeles Times (MuZoz 2003) announced that first lady Laura Bush visited The Vernon City Elementary School in Los Angeles in order to award them \$5,000 for the library collection. Vernon Elementary was the first school in the United States to receive money from the Laura Bush Foundation for America's Libraries. This all sounds encouraging, until we take a closer look. The article also stated that only 131 other schools in the country are getting additional funding from the Laura Bush Foundation. And 6,100 schools applied! That means only 2 percent of those that applied got funded.

There is more: The Vernon City school received enough money to add, at most, 400 titles to its library. This will raise Vernon's ratio of books per child from 15 to 1 to 16 to 1. (Recall that the national average is 18 to 1.) Also, Vernon, as a member of Los Angeles Unified School District, has no funding for a school librarian, and according to the LA Times article, library hours will be cut next semester because of the budget. Who is going to select the books, be responsible for their care, introduce them to children, and help teachers integrate the new books into the curriculum? When will the children have a chance to see the books?

Mrs. Bush is correct to want to help school libraries. I'm afraid, however, that the contribution of the Bush Foundation is like shooting an arrow at the moon: It is in the right direction but won't get far.

Reading Aloud

Here is another suggestion: An article in Education Week announced that the testing required for No Child Left Behind will cost \$5.3 billion between 2002 and 2008 (Richard 2003). What if that \$5.3 billion were invested instead in a trust fund for school libraries, dedicated to improving both books and staffing in high poverty area schools? The interest on this sum might be enough to guarantee a print-rich environment and adequate libraries for all children in the United States forever. (My thanks to David Loertscher for the trust fund idea.)

Another advantage of a permanent fund is that schools would no longer have to compete against each other for tiny amounts, and the time now spent writing grants, evaluating grants, and searching for money could be utilized in more productive ways.

Reading Aloud

Largely thanks to the enormous impact of Jim Trelease's Read Aloud Handbook, now in its fifth edition (2001), the practice of reading aloud to children is widespread in North America, and with good reason.

Children who are read to at home read more on their own (Lomax 1976; Neuman 1986, 1995). Neuman (1995) reported that parents of children who were heavy readers "established a fixed routine early on of reading to their children when they were young .. nap-time and bedtime stories were said to begin as early as six months of age" (p. 132). In addition, when teachers read stories to children and discuss the stories ("literature activities"), children read more (Morrow and Weinstein 1982). Only one of the 12 reluctant readers in Lao's study (Lao 2003; discussed earlier) was read to as a child; all 10 of the enthusiastic early readers were read to.

☐ Even college students read more and better books when they are read to.

Two classroom studies confirm that children are more likely to select books for independent reading that teachers have read to them (Martinez, Roser, Worthy, Strecker, and Gough 1997; Brassell 2003).

From elementary school, the research then jumps to the college level: In Pitts (1986), "basic skills" university students ("intelligent but under-prepared students," p. 37) were read to one hour per week for 13 weeks. Selections included works by Twain, Salinger, Poe, and Thurber, and the reading was discussed afterwards. Pitts reported that the class that was read to checked out more books and better books from the reading lab than did students in other basic skills classes. In addition, the class that was read to did better on the final essay.

Reading aloud has multiple effects on literacy development. As noted above, it has an indirect effect—hearing stories and discussing stories encourages reading, which in turn promotes literacy development. Hearing stories appears to have a direct impact on literacy development as well. Short-term studies show that children make significant increases in vocabulary knowledge after just a few hearings of studies containing unfamiliar words (Eller, Pappas, and Brown 1988; Elley 1989; Leung and Pikulski 1990; Stahl, Richek and Vandevier 1991).

In controlled studies, it has been shown that children who are read to regularly, at home or at school, make superior gains in reading comprehension and vocabulary (Bus, Van Ijzendoom, and Pellegrini 1995; Blok 1999). In a recent study by Denton and West (2002) of over 20,000 children, it was reported that children who were read to at

Reading Aloua

least three times a week prior to entering kindergarten did better than those read to less than three times a week on a measure of reading, given at the end of kindergarten and the end of first grade. This result held even when the effect of poverty was controlled.

Senechal, LeFebre, Hudson, and Lawson (1996) is a remarkable confirmation that storybook reading by parents contributes to literacy development: They found that children of parents who scored higher on a test of knowledge of storybook authors and storybook titles did better on a test of vocabulary. This result held regardless of the parents' education and the parents' own reading habits.

directions" (p. 348). done so we don't lose time,' are heard from various and assist them. Cries of 'hurry up' and 'let's get it faster children go to the desks of the slower ones proval and children hurry to finish the task. A few read Kofiko.' There are immediate shouts of apchildren that 'we need to hurry because we want to the blackboard. At 11:25 the teacher reminds the is busy copying home assignment questions from after the reading program began: "11:20: The class from a teacher's observational record, two months adventures of a monkey. The following is a quote read to from the Kofiko series, which dealt with the acted to hearing stories. First graders in Israel were sented this interesting report on how children reto providing test scores, Feitelson et al. also preread-alouds on language development. In addition pirical study that confirmed the positive impact of ple. Feitelson, Kita, and Goldstein (1986) is an em-Kuerbitz 1979; Mason and Blanton 1971; Wells dren say that they enjoy being read to (Walker and what most parents know: The vast majority of chilcial, it is pleasant. The empirical research confirms 1985; Senechal et al. 1996). Here is a concrete exam-Hearing stories read aloud is not only benefi-

☐ Nearly all children like being read to.

In addition to the enthusiasm for hearing stories in the classroom, Feitelson et al. reported that children asked their parents to buy them Kofiko books: "By the end of the study 13 of the 31 children in the experimental class personally owned one or more Kofiko books; all together the children owned 45 Kofiko books. Four additional children were borrowing Kofiko books from relatives, neighbors, or the public library. In comparison, there were single Kofiko volumes in each of three homes in one control class, and one Kofiko book each in four homes and two in a fifth home in the second control class. In every case these belonged to older siblings and the interviewed first grader had not read them" (p. 350).

Here is another stunning example of the power of read-alouds, from the first edition of Jim Trelease's Read Aloud Handbook (2001):

Assigned in mid-year to teach a sixth-grade class of remedial students, Mrs. (Arm) Hallahan shocked her new students by reading to them on her first day of class. The book was Where the Red Fern Grows.

A hardened, street-wise, proud group (mostly boys), they were insulted when she began reading to them. "How come you're reading to us? You think we're babies or something?" they wanted to know. After explaining that she didn't think anything of the kind but only wanted to share a favorite story with them, she continued reading Where the Red Fern Grous. Each day she opened the class with the next portion of the story and each day she was greeted with groans. "Not again today! How come nobody else ever made us listen like that?"

Mrs. Hallahan admitted to me later, "I almost lost heart." Bust she persevered, and after a few weeks (the book contained 212 pages), the

Reading Experience

tone of the class's morning remarks began to change, "You're going to read to us today, aren't you?" Or "Don't forget the book, Mrs. Hallahan."

"I knew we had a winner," she confessed, "when on Priday, just when we were nearing the end of the book, one of the slowest boys in the class went home after school, got a library card, took out Where the Red Fern Grows, finished it himself, and came to school on Monday and told everyone how it ended." (p. 26)

Reading Experience

school students after one year of sustained silen ward pleasure reading among 15 ESL middle Shin (1998) noted an improvement in attitude tothe course, and recommended that her husband cally," and she continued to read after the end of her attitude toward reading "changed dramati-After participating in an extensive reading class, book in English before coming to the United States reading as a leisure activity and had never read a student in the United States who did not view Tse (1996) describes the case of Joyce, an adult ESL ing more than comparison students six years later months not only did more leisure reading while free reading program for eight and one-half Sixth-grade boys who participated in an in-school and Clarke (1973) present a spectacular example (Pfau 1967; Pilgreen and Krashen 1993). Greaney program ends than those in traditional programs more involved in free voluntary reading after the children who participate in these programs are finding in in-school free reading studies is that reading. Before the SSR experience, only three out take the same class, rather than a traditional class. they were in the program but also were still read-Reading itself promotes reading. A consistent

☐ Reading itself promotes reading

8

of 16 (23 percent) were regular pleasure readers. end of a year. This increased to 56 percent (nine out of 16) at the

exposure to interesting and comprehensible chilciated reading in English with difficult pedagogical dren's literature. Previously, the teachers had assoincrease in interest in reading and in promoting truly interesting material in another language. grammar; many had never experienced reading texts that were packed with difficult vocabulary and among teachers in Korea after only one two-hour pleasure reading in English as a foreign language Cho and Krashen (2002) documented a clear

Home Run Books

When I read Garfield books in first grade, I thought I found something better than TV.

asked one question: Was there was one book or studies has confirmed that Trelease is right. In all home run, is always the best." A series of three entitled The Overall Boys. "One's first book, kiss, ence to his earliest experience in reading, a book book," can create a reader. Trelease took the term very positive reading experience, one "home run reading experience that interested you in reading? three studies, elementary school children were "home run" book from Fadiman (1947), in refer-Children were also asked to name the book if they Trelease (2001) has suggested that a single

□ Sometimes one

experience can create a positive reading

ported the name of a book, some added commenunderstood the question. While most simply retary, such as It was clear from students' responses that they

Reading Experience

"It was the Box Car Children that started me reading, because it was a good book."

because it was funny and an adventure." "Captain Underpants! That book turned me on,

cause I didn't like to read before." "The book that got me interested was Clue, be

Chicka Boom Boom." "I liked to read ever since my first book, Chicka

(Von Sprecken, Kim, and Krashen 2000, p. 9)

area school recalled one or more home run books. nally, in Ujiie and Krashen (2002), 82 percent of 266 school recalled one or more home run books. Fione home run book. In Kim and Krashen (2000), 75 fourth and fifth graders in another low-income percent of the 124 fourth graders recalled at least percent of 103 sixth graders from a high poverty In Von Sprecken, Kim, and Krashen (2000), 53

and the Old One, and Go Dogs Go. Home run books of the 16 mentioned a book by R. L. Stine), Marvel The Diary of Anne Frank, Goosebumps, Matilda, Anni Looking for Home, Calling All Creeps, Pigs Can Fly, Plague, The Outsiders, Island of the Blue Dolphin, Night in the Terror Tower, The Giving Tree, The Krashen (2000) mentioned, among others, Don't many, many others. The sixth graders in Kim and robe (two), books by Beverly Cleary (four), and dren series (two), The Lion, the Witch and the Ward-Judy Blume (two), a book from the Boxcar Chil-Comics (three), Charlotte's Web (two), books by (eight students), various "scary books" (16; but 15 in Von Sprecken et al. (2000) mentioned Animorphs tioned a wide variety of books. The fourth graders books (Ivey and Broaddus 2001), the children men-Look at the Mirror, Kristy's Great Idea, The Giver, In agreement with other studies of favorite

Fox, Goosebumps, and many others. Captain Underpants, The Little Mermaid, The Stone in Ujiie and Krashen (2002) included Fear Street,

variety of "home run" ☐ Children mention a wide

were in trouble with boyfriends, mothers or life in sions. This magazine had stories about girls who mother brought me a magazine called True Confesat all and had a hard time with reading until my as required reading. I did not like the basal reader subject, it was Judy Blume. For another, it was a began reading" (p. 16). general. I loved this magazine and from then on, I were very structured and basal readers were used magazine: Her subject "Jane" tells us: "Teachers to what caused the home run experience. For one Lao's (2003) subjects also differed with respect

not predict what book will serve as a home run exwide range of literature in language arts. One canclassroom libraries and introducing children to a riety of books underscores the importance of properience for a particular child. viding many different titles in school and The finding that readers mentioned a wide va-

Models

read during sustained silent reading sessions. use of library corners increased when teachers ple reading, both at school and at home. Morrow (1982) found that nursery school and kindergarten Children read more when they see other peo-

actual reading while teachers were reading than that children were significantly more engaged in dren during their daily SSR time and confirmed when teachers were not reading. reading behavior of eight- and nine-year-old chil-Wheldall and Entwhistle (1988) examined the

Providing Time to Read

results suggest that having a model is important. might do other things that promote reading, these ing read more than parents of children who show less interest in books. Although these parents that parents of children who do more leisure read-Morrow (1983) and Neuman (1986) reported

silent reading time. Although this may be difficult with, the results will make the sacrifice worthwhile. given the endless paperwork teachers have to deal and actually read for pleasure during sustained follow McCracken and McCracken's (1978) advice These studies indicate that teachers should

Providing Time to Read

dents really use SSR time for reading. Clarke 1973). There is also strong evidence that stu-Krashen 1993) as well as years later (Greaney and immediately after the program ends (Pilgreen and more on their own than those who have not, both dren who have participated in SSR programs read vides time for reading, and as we have seen, chilreading. Sustained silent reading, of course, pro-Simply providing time to read results in more

books. In one of the 11 classes observed, there were quired to bring their own books, and in which few books, no modeling of reading, no promotion teachers made deliberate efforts to promote certain classrooms in which more books were available in sustained silent reading sessions in a middle "Models," above), in which students were not rewhich teachers also read while students read (see ing. More reading tended to take place in those school in the middle of the school year and rethe classroom library (see "Access," above) in ported that 90 percent of the students were read-Von Sprecken and Krashen (1998) observed

> people reading. □ Children read more when they see other

when they have time to □ Children read more

be reading during SSR. of books, and students had to bring their own books. Nevertheless, 80 percent were observed to

sustained silent reading was not high at the beginning of the school year but increased after one to reading during SSR. She noted that enthusiasm for two-week period and found that 94 percent were eighth-grade students during SSR time over a Cohen (1999) unobtrusively observed 120

read during SSR. weeks, most children ☐ After the first few

option. Nevertheless, a surprising percentage were option of studying or pleasure reading, and a subcent. In the upper grades, students were given the grade 12 to 65 percent in grade nine. stantial percentage took advantage of the study much higher, ranging from 76 percent to 100 pergrades one through five, the percentages were one through twelve were actively reading; in reading for pleasure, ranging from 29 percent in cent of students observed in SSR sessions in grades Herda and Ramos (2001) reported that 63 per-

Direct Encouragement

readers" in the fifth grade encouraged their chil couraged their use." Greaney and Hegarty (1987) and kindergarten teachers encouraged pupils to cent of the parents of nonreaders, and Neuman dren to read specific books, as compared to 44 perfound that 73 percent of the parents of "heavy room libraries were used more when teachers "enuse the library corner more, the pupils did so. Morrow (1982) reported that when nursery school have an impact on the amount of reading done. that simply suggesting reading to children may Lamme (1976) found that elementary school class-Research is sparse in this area, but it appears

the amount of time children devoted to reading. tween "parental encouragement of reading" and (1986) reported a strong correlation (r = .53) be

of the parents of nonreaders). One interpretation of paper reading (41 percent, compared to 18 percent for these fifth graders. this result is that newspaper reading was not right that more parents of nonreaders encouraged newsble, or both. Greaney and Hegarty also reported that is, either not interesting or not comprehensibackfire if the reading material is not appropriate, Conversely, directing children to read may

enthusiastic, but he obeyed his mother. What is crucial is that Carson's mother allowed him to read ing to her at the end of each week. Carson was not student in the fifth grade when his mother rewhatever he wanted to. the library and insisted that he report on his readquired him to check out two books per week from ment. Carson, now a neurosurgeon, was a poor reading and thus lead to better literacy developencouragement to read can stimulate an interest in The case of Ben Carson suggests that direct

pert in anything of a scientific nature" (p. 37). reading expanded, he "became the fifth grade exfifth grade science" (1990, p. 37). As his science reported that while he was a "horrible student in ture, and science, reflecting his interests. Carson the traditionally academic subjects, I excelled in At first, Carson chose books on animals, na-

all through summer, and by the time I began sixth reading also improved his spelling: "I kept reading problems" (p. 38). Consistent with the research, came "the best student in math when we did story fected all his academic work, reporting that he bereading comprehension and vocabulary, which af-Carson credits reading with improving his

> material is interesting and to read can work if readin □ Direct encouragement

comprehensible.

conscious memorization" (p. 39). grade I had learned to spell a lot of words without

was no longer necessary. of reading soon took over, and direct instruction his reading was self-selected, the intrinsic pleasure the right amount of direct encouragement; because Clearly, Carson's mother provided him with just enth grade. . . . I was at the top of the class" (p. 39). improved so much that by the time I entered sevand my classes became much more interesting. I ing, vocabulary, and comprehension improved, dramatic results: "As I continued to read, my spell-The initial impetus his mother provided led to

performance in school resulted in much better □ Ben Carson's reading

and Sherrill (1988): in this report from a reader interviewed by Carlsen The critical role of self-selection is confirmed

subject matter in which I had no interest. My stories and I could not tolerate them. (p. 138) older sister had been extremely fond of horse cause they were too difficult or they were about As soon as I was progressing through the priforce books on me, which I disliked, either besiasm for reading because my mother tried to mary grades I remember a distinct lack of enthu-

capable of reading them. have access to truly compelling books and are Of course, encouragement only works if readers

emphasized free reading (Shin 2001). Shin obone Goosebumps book and read another over the served that Tanesha could read and understand was enrolled in a special summer program that grader who read at the fourth-grade level and had Goosebumps, and encouraged her to try to finish little confidence in her reading ability. Tanesha rect encouragement worked: Tanesha was a sixth Shin (2003) presents another case in which di

Other Factors

40 books over the summer. on to Fear Street, and Judy Blume, reading a total of day for the next few weeks, and eventually moved ceeded, went on to read one Goosebumps book per tance, Tanesha accepted the challenge and sucboth volumes. Shin then challenged her to read a she could do it, but surprised herself by finishing Goosebumps book in a single day. Despite her relucweekend. Tanesha was extremely doubtful that

only lacked confidence. Tanesha was capable of doing the reading: She books, the reading material was compelling, and with Ben Carson, there was access to plenty of agement to work with Tanesha. As was the case The conditions were right for direct encour-

share theory and research with students of English of skill-building and direct teaching of language. as a toreign language in Taiwan. on previous classes, have assumed the correctness cially important with older students, who, based Lee (1998) is a report of one successful attempt to underlying free voluntary reading. This is espeforming students about the theory and research Another form of direct encouragement is in-

Other Factors

children read include: Other factors that appear to affect how much

chapter 1, Manning and Manning (1984) reported greater gains with SSR when students discussed conferences in which "the book the student was that had brief weekly individual teacher- student groups. Of great interest is their finding that a group their reading with each other in pairs and small Discussion and literature circles: As noted in

> right amount of direct Tanesha received just the encouragement. □ Ben Carson and

ing were set" did not make as much progress. reading was discussed and plans for further read-

read together, and acted out. perience," books are read to the class, discussed, after a second year. Recall that in "shared book exyear of their study, but there were no differences did better than the "pure SSR" group in the first and Mangubhai (1983), also discussed in chapter 1, The "shared book experience" group in Elley

achievement, not amount read, but the results are These studies focus on gains in reading

voluntary reading." tions "may be the most important motivator for sixth graders, concludes that peer recommendaommendations. Worthy (1998), in a study of two why they selected the books they did. Sixty-nine ests. Wendelin and Zinck (1983) asked fifth graders students, in fact, felt compelled to read what their enced by what their peers were reading. Some served that what students read was heavily influelective high school English course, informally obpercent responded that they relied more on their description of a one-semester free reading friends were reading and ignored their own interfriends' recommendations than on teachers' rec-Peer pressure: Appleby and Conner (1965), in

☐ Young people's

influenced by their peers. reading choices are

ture, children show more interest in books. corners have "attracting features," posters, bulle good kindergarten and nursery school teachers tin boards, and displays related to children's litera know what book store owners know: When library Book display: Morrow (1982) reported that

pared two groups of fourth graders, one reading hardcover books and the other reading paperback Paperbacks: Lowrey and Grafft (1965) com-

Light Reading: Comic Books

periment (Fader 1976) emphasized paperbacks. change. Other studies showing that children prefer ers"). The paperback group showed a dramatic im-(1988). Also, the successful Hooked on Books expaperbacks include Ross (1978), Wendelin and while the hardcover group showed no significant provement in attitude toward books and reading "known to be popular with students and teach-Zinck (1983), and Campbell, Griswald, and Smith versions of the same books (the books were

> paperback books to ☐ Children prefer

hardcover books.

on how parents can encourage reading. In an interthree B's": view (Carter 1988), Trelease recommended "the Jim Trelease has some interesting suggestions

book they owned and didn't have to share." people who tell me that name of a special Book ownership: "Again and again, I meet

ing materials in book racks in the bath-Book rack: Trelease suggests keeping read-

bed like Mom and Dad." the child: You are old enough to read in Bed lamp: "Even at age 3, you can say to

Reed 1985) to encourage reading. (see, e.g., Duggins 1976) and authors' visits (e.g., In addition, teachers have used booktalks

Light Reading: Comic Books

would couldn't spell your word, you got a point-provided of course that you could spell word to the class, and for every classmate this game in which each kid had to offer up a think of a really good word. She had us playing class in Hillcrest Elementary School, trying to standing in front of Miss Grosier's first grade On a November day in 1957 I found myself

□ Trelease's three Bs.

book ownership

- book racks
- bed lamps

"Bouillabaisee," I said, finally.

Grosier scolded. "You don't even know what that is," Miss

"It's fish soup."

"You can't spell that."

"Can too."

"Come here. Write it," She demanded

that it was, indeed, correct I wrote it. She looked it up, and admitted

my classmates were struggling with See Spot Run, I was reading Superman. I knew what indestructisions long before I started school. While most of four and five. . . . I learned to read from those sesthat comic book and so many others when I was right now, I'd like to thank, albeit somewhat be bouillabaisse. (Shooter 1986, p. A85) I hadn't been banned from competition after cold-bloodedly used it to win another gold star if ble meant, could spell it, and would have Also, I'd like to thank my mother who read me book in which I found the word bouillabaisse. latedly, whoever wrote the Donald Duck comic Easiest gold star I ever won. And right here

book reading: the Jim □ The power of comic

Shooter story.

tion of the Overstreet Comic Book Price Guide. Comic Book Company. It appeared in the 1986 edi-The author of this wonderful story is Jim former editor-in-chief of the Marvel

aging children to read is to expose them to light way nearly all of us learned to read. deprived of. I suspect that light reading is the children, for economic or ideological reasons, are does not exist, and a kind of reading that many reading, a kind of reading that schools pretend Perhaps the most powerful way of encour-

□ Light reading is the

way nearly all of us learned to read.

Light Reading: Comic Books

interesting research on comic book reading. have been very popular, and there has been some In this section, I focus on comic books. Comics

cern: Can comic book reading lead to additional bring the discussion around to the original concomic book reading cause any harm? Finally, I lic: Are comic books "challenging" enough? Does on questions that have been of concern to the pubreading, I present a brief history of comic books in free voluntary reading? the United States, as well as research that focuses Before showing how comics can encourage

A Brief History

comics a week and 46 percent reading 10 or more fifth-grade boys reporting reading at least four is still substantial in his study, with 69 percent of comics, but the number of children reading comics Lyness (1952) reported more modest readership of school students were comic book readers (Slover school children and 50-80 percent of junior high During this time, 90 percent of all elementary such characters as Superman (1938), Batman 1937 to 1955, a time that saw the introduction of 1959; Witty and Sizemore 1954; Blakely 1958. (1939), Wonder Woman (1941), and Archie (1941). Comics enjoyed a "Golden Age" from about

attempt to 'clean up their act,' began to grind out mass medium in the United States" (Inge 1985) "the most severe form of censorship applied to any in the establishment of the Comics Code, guide Wertham's Seduction of the Innocent (1954), resulted books on behavior, stimulated in part by The result was a decline: "Writers and artists, in an lines that one comic book historian referred to as Public concern about the impact of comic

□ The golden age of

furny animals" (Brocka 1979). boring and repetitive stories about spooks and

Witty and Sizemore 1955) reported similar results. social relationships" (p. 108). Lewin (1953, cited in to be about equally well-adjusted and effective in erage marks and were considered by their teachers grades four through six who read the most comics rable group of nondelinquents, but nearly all of and behavior. Hoult (1949) reported that delinstrong relationship between comic book reading ever, to be unfounded. Research has failed to find a that the two groups "received almost the same avwith the 10 percent who read the least, and found Witty (1941) compared the 10 percent of pupils in Hoult's subjects reported reading comic books. "harmful" and "questionable" than did a compa quents read more comics and more comics labeled The fears about comic books appeared, how

antisocial behavior. not responsible for □ Comic book reading is

ership, Marvel developed the first superheroes problems that the Superman and Batman of the with problems. Spider-Man, for example, has appearance of Spider-Man. Under Stan Lee's leadwhat may have been the most important event in vel Comics's Fantastic Four, followed in 1962 by books, began in 1961, with the publication of Marlack of self-esteem. lems, romance problems, lack of direction, and a 1940s and 1950s never imaged—financial probcomic book history in the United States: the first The recovery, the "Silver Age" of comic

in 2000 (Businessweek.com, August 29, 2002). but fell to \$375 million in 1998 and to \$250 million 4, 1987). This skyrocketed to \$850 million in 1993 \$200 million (Los Angeles Herald Examiner, October downs. Annual sales of comic books in 1983 were still going strong, but there have been ups and There is clear evidence that the Silver Age is

Light Reading: Comic Books

million. covery: In 2001, sales increased slightly to \$260 video games (Hartl 2003), and there are signs of redue to the development of animated computer and Some experts think the recent decline in comics is

graphic novels (see, e.g., Weiner 2003). vilion" as part of the exhibitions. The School Library novel session in 2003 and had a "graphic novel paand BookExpo America offered a full-day graphic The American Library Association held is not alone in her observations on graphic novels fournal now has regular columns on comics and preconference session on graphic novels in 2002, 2002, p. 42), especially among teenagers. Gorman kids and are flying off library shelves" (Gorman ing to one librarian, "have proven to be a hit with fuller-length comic books" (Gorman 2002), accordnovels or book-format comics, "meatier and expected to boost interest in comics, and graphic Movies based on comic-book characters are

feat of imagination" (Cocks 1988). superheroes. Time Magazine called it "the best of men?" The watchmen, of course, with the police commissioner but as a vigilante. the quote from Cicero, "who watches the watchhas serious philosophical disagreements with Suretirement to fight crime, no longer in partnership tures an aging Batman who comes out of the breed" of graphic novels, and "a superlative perman. The Watchmen (Moore 1986) is based on This Batman is tired and sore after adventures and ners in this genre: The Dark Knight (Miller 1986) fea-Here are two graphic-novel "classics" for beginwith subtle, complex, and often fascinating plots. novels are a giant step beyond the comic book, giant step beyond the comics of the 1940s, graphic Just as the Marvel comics of the 1960s were a

> popular today. □ Graphic novels are

mid-1970s to about 4,000 in 1987. The number has declined since the late 1980s but is still impressive. United States and Canada. formation about 2,500 comic book stores in the List (http://www.the-master-list.com) provides inbook stores in the United States, and The Master Duin (2002) reported that there were 3,600 comic United States increased from about 100 in the The number of comic books shops in the

ics, but it is a considerable amount. 6), while for girls the range was from 50 percent was from 69 percent (grade one) to 75 percent (grade United States was substantial: For boys, the range mentary school children reading comic books in the tricts in 38 states, reported that the percentage of elea stratified sample of children from 95 school disbooks. In 1991, McKenna, Kear, and Ellsworth, using children reported that they read or had read comic 1973 to 1975 and reported that 80.4 percent of the three English-speaking Canadian communities from book readership than during the Golden Age of com-(grade 6) to 60 percent (grade 1). This is less comic Williams and Boyes (1986) studied children in

King) and comic books. gender, were scary books (R.L. Stine, Stephen for all children, regardless of reading ability and area what they liked to read. The top preferences (1999) asked sixth graders in the Austin, Texas, comic books, Worthy, Moorman, and Turner Confirming the continuing popularity of

Light Reading: Comic Books

Comic Books and Language Development

me a large vocabulary . . . What other six-year-old Comic books opened up my imagination and gave would know what a serum was? Or invulnerability? (Sharon Cho, in Rosenthal 1995, p. 51)

disorders" (p. 130). causal and reinforcing factor in children's reading from being a help to reading, comic books are a imum comic book reading go hand in had, that far claiming that "severe reading difficulties and maxasserted that comic book reading interfered with learning to read and with language development, Wertham, in Seduction of the Innocent (1954),

erable evidence that comic books can and do lead books are not harmful. Moreover, there is considto more "serious" reading. ment and school performance suggests that comic pact of comic book reading on language develop-Research done on comic book texts and on the im-Wertham's claims have not been supported

Comic Texts

school pupil for a large volume of reading and voof the upper elementary school and junior high cabulary building experience, this source should comics should be considered: "In view of the need not be neglected" (p. 110). In 1941, R. L. Thorndike recommended that

a half million words a year, half of the average (Anderson, Wilson, and Fielding 1988). yearly reading volume of middle-class children significant: One comic a day would mean well over per issue (not counting advertisements). This is Current comics average about 2,000 words

> reading development are comic books retards □ Claims that reading

500,000 words a year. □ One comic a day =

credible Hulk) are consistent with Thorndike's, while other comics are far easier, as shown in table 2.6.° and evaluated a wider range of comics. Wright's sixth-grade level. Wright (1979) used the Fry formula tindings for superhero comics (e.g., Superman, The In-Batman comics were written at about the fifth- or formula and reported that the popular Superman and have been done. Thorndike (1941) used the Lorge Several studies of comic book reading difficulty

Reading Level of Comic Books (1978)

Tittle	Re	adability (Readability Grade Level	
	Sample 1	Sample 2	Sample 3	Mean
The Amazing Spider- Man #187	7.4	3.0	2.8	4.4
Archie #274	2.0	1.7	1.7	1.60
Batman #299	7.9	4.0	00 U	6.4
Bug-Burny #201	2.9	1.9	1.7	21
Casper the Friendly Ghost #200	1.9	1.7	1.7	1.6
Chip and Dale #55	2.9	1.9	1.8	22
Dennis the Menace #158	2.8	3.0	4.7	မှာ
The Incredible Hulk #74	5.5	92	1.9	55
Mighty Mouse #53	1.9	3.3	1.9	2.4
Sad Sack #265	24	1.9	1.9	2.1
Spidey Super Stories	2.7	1.8	1.9	2.1
Star Hunters #7	6.0	7.3	3.3	55
Star Wars #16	7.5	7.4	3.3	6.1
Superman #329	7.3	83	3.5	6.4
Tarzan #18	7.6	4.4	4.5	55
Tom and Jerry #311	1.9	2.0	1.8	1.9
Wonder Woman #245	55	5.5	35	4.8
Woody Woodpecker #172	24	2.4	3.0	31
Yogi Bear #7	3.2	<u>အ</u> ပ	2.4	2

Source: G. Wright, "The Comic Book: A Forgotten Medium in the Classroom," Reading Teacher 33 (1979). Reprinted with permission of Gary Wright and the International Reading Association.

> score of 7.4 (Schulze 1976, cited in Monteith 1980). comparison, best sellers in 1974 ranged in readability from grade 6 to grade 10, with a mean readability its can be at a respectable level of difficulty. In Thorndike's and Wright's analyses show that com-If readability scores have any validity,

Woman), how the villain Psycho-Man operates: to his wife, Sue Richards (a.k.a. the Invisible vel's Fantastic Four. In this scene Reed Richards, a get, consider these examples. The first is from Marmaster scientist (a.k.a. Mr. Fantastic), is explaining To see how sophisticated comic dialogue can

be complex.

□ Comic book texts can

tims. (The Fantastic Four, no. 283, 1985, p. 21) contusing emotional stimuli for his intended vicerything he does is designed to create conflicting, it to only one end: to manipulate emotions. Evcommand, darling, but he had traditionally used The Psycho-Man has a vast technology at his

Flesch-Kincaid formula, is 12.0, or 12th grade. The reading level of this passage, according to the

superheroes speculate about how they were involuntarily transported to another planet: In Marvel's Secret Wars, no. several

one minute we're checking out this giant watchmacallit in Central Park, then "poof," the Captain Marvel: H-how'd we get here? I mean final frontier.

ently caused sub-atomic particle dissociation, erated life support environment. space, where it reassembled us inside a self-gentil it teleported us here, to pre-set coordinates in reducing us to proto-matter, which it stored untell you, Captain Marvel-this device appar-Mr. Fantastic (Reed Richards): This much I can

(Secret Wars, no. 1., p. 2) The Incredible Hulk: That's obvious, Richards!

99

occasionally encounter. are hard. They are thus not typical of comic box not chosen at random: I selected them because the dom samples of the text. The above excerpts were language, but they show what comic books reader formulas such as the Fry formula are based on ras formula. It should be pointed out that readability 12th-grade level, according to the Flesch-Kincai Mr. Fantastic's explanation is written at the

second-grade level. In addition, after 60 years used Archie comics around. ucation. This is good news for students in tainly the longest incarceration in the history of ed but according to Wright's data, it is written at the than Archie. Archie is about high school student teachers, because it means that there are plenty Archie and his friends are still in high school, on teachers are looking for high-interest/low-vocabu lary reading for older students, they can't do bette Deborah Glasser has pointed out to me that

adulthood?" (p. 146). adults, who "loved to read Archie comics as di asked the interesting question of when and w not shared by teachers and other adults. North other "on a regular basis," (p. 143), forming a tru and shared and discussed Archie comics with ear dren, dismiss them 'garbage' once they reache literacy community. As expected, this view w "interesting, engaging and humorous" (p. 143) ("ARCHIE RULES"), described the characters ing habits of 30 preteen readers, all dedicated to Norton (2003), who studied the comic book read Archie. The children universally praised the comis The value of Archie comics was confirmed by

☐ Archie is excellent

high-interest/

low-vocabulary reading.

Experiments with Comic Book Reading

among preteen readers.) reading other material on tests of reading compre-Norton 2003 for similar reactions to comic books exist for these boys and girls" (p. 111). (See also test of the world was concerned, it simply did not mod was eagerly looked forward to ... as far as the seading comic books. Sperzl reported that "the pesperzl's study is how much the children enjoyed able gains. Perhaps the most interesting finding in difference between groups reading comics and study using fifth graders, Sperzl (1948) found no comic books have been published. In a 15-week sension and vocabulary. Both resulted in accept-Two sustained silent reading studies using

"poor readers" gained more from book reading, groups gained in reading comprehension. Although sther group reading "high-interest" books. Both pected growth, gaining .26 years in 10 weeks. poor readers reading comic books still matched ex-Arlin and Roth (1978) compared third graders

omic book readers in Arlin and Roth's study read nore effective when durations are longer), and the one in chapter 1; in-school free reading is clearly eading. Both studies, however, were short term wmic book reading is at least as beneficial as other assic comics. recall the review of in-school free reading studies We can interpret both studies as showing that

redopment, and overall school achievement (Witty non-comic book readers in reading, language dewaics after the early grades, are at least equal to princ book readers, those who continue to read A number of studies confirm that long-term

1941; Heisler 1947; Blakely 1958; Swain 1948; Greaney 1980; Anderson, Wilson, and Fielding 1988). Even children who read almost nothing but comic books do not score significantly below average in reading comprehension (Greaney 1980).

An exclusive diet of comic books will probably develop adequate but not advanced levels of compètence in language and literacy development. There is good evidence, however, that such reading habits are unusual. In general, long-term comic book readers do as much book reading as non-comic book readers (Witty 1941; Heisler 1947; Bailyn 1959; Swain 1948), and the results of several studies suggest they do more (Blakely 1958; Ujik and Krashen, 1996a, 1996b).

Table 2.7 presents the results from one of these studies. Ujiie and Krashen (1996a) asked seventh-grade boys about their comic book reading overall reading, book reading, and attitude toward reading. Those who reported more comic book reading also reported for-pleasure reading in general. The results were similar for middle class children and for "chapter 1" children, those who came from lower-income families.

How Often Do You Read for Pleasure?

non-comic reader	occasional reader	heavy comic reader	Middle Class	non-comic reader	occasional reader	heavy comic reader	Chapter 1
33% (8)	35% (31)	65% (17)		16% (4)	40% (32)	54% (19)	Daily
17% (4)	35% (31)	27% (7)		20% (5)	28% (23)	34% (12)	Weekly
50% (12)	30% (27)	8% (2)		64% (16)	32% (26)	11% (4)	Monthly/never

Source: Ujiie and Krashen (1996a)

Similar results were reported for book reading and for attitudes toward reading, with more comic book reading associated with greater enjoyment of reading. What is especially interesting is that although the middle class boys tend to read more in general, undoubtedly related to the fact that they have access to more books (Neuman and Celano 1999), heavy chapter 1 (low income) comic book readers reported more reading than the occasional and non-comic book reading middle class boys.

There is, in addition, evidence that light reading can serve as a conduit to heavier reading. It can help readers not only develop the linguistic competence for harder reading but also develop an interest in books.

Comics as a Conduit

for word frequency. and extensive reading across a broad range of subto the conclusion that the development of lexical including two of the three measures they used more uncommon words, leading Hayes and Ahrens most frequent 5,000 words. Printed texts include far in helping readers progress to the level where ects" (p. 409). Table 2.8 presents some of their data knowledge beyond basic words "requires literacy used in conversation and television are among the "lightest" reading. About 95 percent of the words ordinary conversation, whether adult-to-child or found that the frequency of less-common words in that much educated vocabulary comes from According to their findings, it is highly unlikely they can read and understand demanding texts. gests that comic books can play an important role adult-to- adult, was much lower than in even the conversation or television. Hayes and Ahrens Research by Hayes and Ahrens (1988) sug

□ Some studies show comic book readers read as much as non-comic book readers. Some studies show they read more.

☐ Cornics can serve as a conduit to heavier reading.

Note that comic books occupy a position be-

7

Light Reading: Comic Books

Despite her initial reluctance, Haugaard bought her son comics, reasoning that

as long as these things appealed to him where all other printed matter had failed, I let him read all he wanted. The words he learned to read here could be used in other reading material too and perhaps his skill would lure him beyond this level. (p. 84)

The results were startling:

He devoured what seemed to be tons of the things...The motivation these comics provided was absolutely phenomenal and a little bit frightening. My son would snatch up a new one and, with feverish and ravenous eyes, start gobbling it wherever he was—in the car on the way home from the market, in the middle of the yard, walking down the street, at the dinner table. All his senses seemed to shut down and he became a simple visual pipeline. (p. 85)

other reading.

☐ Comic books lead to

Comics did indeed lead to other reading. After a year or two, Haugaard's eldest son gave his collection away to his younger brother (who now pores over the comic books lovingly'), and Haugaard noted that "he is far more interested now in reading Jules Verne and Ray Bradbury, books on electronics and science encyclopedias" (p. 85).

Haugaard's experience is consistent with the test of the literature. Her sons' absorption in comics is identical to the reaction Sperzl's students had (see "Experiments with Comic Book Reading" above), and the eldest son's interest in other kinds of reading agrees with the studies mentioned earlier showing that comic book reading does not replace or eliminate book reading. (It should be

tween conversation and abstracts of scientific papers, falling somewhat closer to conversation. This confirms that they can serve as a conduit to more challenging reading.

Table 2.8

Common and Uncommon Words in Speech and Writing

	9	
	Frequent Words	Rare Words
Adults talking to children	95.6	9.9
Adults talking to adults (college grads)	93.9	17.3
Prime-time TV: adult	94,0	22.7
Children's books	92.3	30.9
Comic books	88.6	53.5
Books	88.4	52.7
Popular magazines	85.0	65.7
Newspapers	84.3	68.3
Abstracts of scientific papers	70.3	128.2

frequent words = percentage of text from most frequent 5,000 words rare words = number of rare words (not in most common 10,000) per 1,000 tokens.

Source: Hayes and Ahrens (1988)

Several case histories support the view that light reading is the way many, if not most, children learn to read and develop a taste for reading.

Haugaard (1973) writes of her experience with comic books:

As the mother of three boys, who, one after another, were notoriously unmotivated to read and had to be urged, coaxed, cajoled, threatened and drilled in order even to stay in super slow group in reading, I wish to thank comic books for being a conduit, if not a contribution, to culture.

104

es d

☐ Autobiographical examples attest to the value of comic book

pointed out that the results of these studies sugges that Haugaard's eldest son need not have given up comics in order to enjoy other books. He might no have stopped if he had access to today's graphic novels.)

Mark Mathabane, in his autobiographical as count of his youth in South Africa (Mathaban 1986), mentions comic books as making an important contribution to his acquisition of English and his desire to read. Mathabane had had limited exposure to English until his grandmother began awork for a friendly English-speaking family outside the impoverished ghetto were Mathabane and his family lived:

Not long after she started working for the Smiths, she began bringing home stacks of comic books: Bairuan and Robin, Richie Rich, Dennis the Menace, The Justice League of America, Tarzan of the Apes, Sherlock Holmes, Mysteries, Superman, The Incredible Hulk, Thor—God of Thunder, The Fantastic Four and Spider-Man. (p. 170)

Mathabane's reaction was similar to that Haugaard's son:

Having never owned a comic book in my life, I tirelessly read them over and over again, the parts I could understand. Such voracious reading was like an anesthesia, numbing me to the harsh life around me. Soon comic books became the joy of my life, and everywhere I went I took one with me: to the river, to a soccer game, to the lavatory, to sleep, to the store and to school, reading it furtively when the teacher was busy at the blackboard. (p. 170)

Mathabane credits comics with helping bring his English to a level where he could begin read and appreciate his English books:

Midway into my eleventh year, Granny started bringing home strange-looking books and toys. The books, which she said were Mrs. Smith's son's schoolbooks, bore no resemblance whatsoever to the ones we used at my school. Their names were as strange to me as their contents: Pinnochio, Aesop's Fables and fairy tales of the brothers Grimm. At this point, because of reading comics, my English had improved to a level where I could read simple sentences. I found the books enthralling. (p. 170)

Comics also helped South Africa's Bishop Desmond Tutu:

My father was the headmaster of a Methodist primary school. Like most fathers in those days, he was very patriarchal, very concerned that we did well in school. But one of the things I am very grateful to him for is that, contrary to conventional educational principles, he allowed me to read comics. I think that is how I developed my love for English and for reading. (Campbell and Hayes, cited in Trelease 2001, p. 134)

release (2001) points out that anybody conamed about a possible connection between somic book reading and juvenile delinquency should consider Bishop Tutu's experience.

M. Thomas Inge, a professor of the humanines, remarks that comics were clearly a conduit for him and others: "For my generation, it was the omic book that led directly to the printed page" inge 1985, p. 5). Professor Inge has clearly not wen up reading comics. His essays on comic sooks (Inge 1985) are informative and scholarly.

This writer's experience is similar: I was in the w reading group in the second grade. My father recouraged comic book reading, and improveent soon followed. And Jim Trelease tells us that sachild, he had the largest comic book collection

"For my generation, it was the comic book that led directly to the printed page."

gling with reading, connect him or her with con experience is that "if you have a child who is strug conclusion, based on the research and his person comics" (p. 134). ics. If an interest appears, feed it with mon in his neighborhood (Trelease 2001, p. 134). Hi

cent increase in library use (traffic) and a 30 pe and the 57 days before they were available. cent increase in circulation of non-comic materi presence of comics resulted in a dramatic 82 during the 74 days the comics were in the librar of non-comic book material and total library us brary but did not allow them to circulate; studen They placed comic books in a junior high school! books can be used to stimulate additional reading Dorrell and Carroll then compared the circulate had to come to the library to read the comit Dorrell and Carroll (1981) show how com

in a Junior High School Library Effects of Including Comic Books

Circulation (daily average)	Number of students who used the library (daily average)	
77.49	272.61	Pre-comic Period
100.99	496.38	Comic Period

Pre-comic period = 54 days; comic period = 74 days the Library," School Library Journal 27 (1981). Source: Adapted from L. Dorrell and E. Carroll, "Spider-Man at dents brought to the library by teachers for class assignments. Number of students who used the library does not include sta-

presence of comics in the library did not result any negative comments from parents, and the teachers, school administrators, and library Dorrell and Carroll also reported that:

> somic books in the library. members supported and encouraged the idea of

hat I must have been a 'late bloomer'" (p. 124). wernight . . . my teachers . . . must have assumed serveader to proficient reader of English practically to knowledge of English and no previous schoolmy academic performance—I seemed to go from a ge of 9, ... there was a sudden a significant surge in ng. Yet, "toward the end of the second grade, at the legan school at age eight in the United States, with relopment (Cline and Necochea 2003). Necochea related how comics contributed to his literacy de Juan Necochea, now a professional academic,

ading teachers" (p. 125). Necochea reports that sament rich in oral language, filled with "folk maid his older brother to read the comics to him, rerite was Kalimán, el Hombre Increible). At first he full man and my older brother became my first ut eventually he learned to read them himself. Mecochea was an avid comic book reader (his fales, legends, family histories, tragedies, music nd traditions" (p.124), and . . . comics books. Norms us, came from two sources: A home enviage six he could read in Spanish very well. usly developed literacy in Spanish, which, he Necochea attributes his success to his previ-

iteracy, a topic we return to in chapter 3. wage literacy as a facilitator of second language smic books, it also confirms the power of first lan-This case not only confirms the power of

the Case for Comics

The case for comics is a good one:

The texts of comics are linguistically approcomprehensible." priate, and pictures can help make the texts

- Comic book readers do at least as much reading as non-comic book readers, and the most recent research shows that they read more overall, read more books, and have more positive attitudes toward reading.
- There is strong evidence from case studies that comics can serve as a conduit to book reading.

Light Reading: The Teen Romance

Another example of light reading that can ercourage additional reading is the teen romance. Parrish (1983) provides this characterization:

Most of teen romance books are written to a formula. The central character is a girl, 15 to 16 years old, and the story is always told from her viewpoint. One or more boys, 17 to 18 years old, are also needed. The setting is usually contemporary and familiar, such as a small town. First love is a favorite plot focus.

The joys of falling in love, the anxiety it engenders, the pain and growth of problems met, and the inevitable happy ending are all standard. However, these romances exclude sexual situations, profanity, or perversions. The conflict is usually about the heroine's feelings—insecurity, uncertainty, unpopularity, inferiority, pleasure/pain, a struggle for independence. Dialogue generally carries the action, while characterization is revealed through the romantic interaction and problems. (p. 611)

Light Reading: The Teen Romance

Teen romances were read by many, if not most, girls in junior high school and high school in the 1980s. Parrish and Atwood (1985) surveyed 250 junior and senior high school girls in the Phoenix metropolitan area and reported that during the school year, 50 percent of the eighth graders said they had read from one to five teen romances, and 100 percent of the ninth graders had read at least five. Also, "an astonishing 12% of the twelfth graders had read in excess of thirty novels this school year" (p. 24).

Although there has been little research on teen romances, the results are quite similar to those of romic book research.

Teen romances appear to have linguistically acceptable texts, ranging in reading level from grade four to grade seven. Sweet Valley Twins is written at the fourth-grade reading level; Sweet Pram Romances, written for girls ages 10 to 15, is at the fifth-grade level; and the Sweet Valley High series, for age 12 and older, is written at the exth-grade level. Caitlin, a "love trilogy" written by Francine Pascal, ranges from the grade five to the grade seven reading level. By way of comparison, recall that the mean readability level of best sellers is around the seventh-grade level.

Reading teen romances does not seem to prevent other kinds of reading. Parrish and Atwood (1985) found that "students who read the romance novels read many other kinds of literature also" (p. 25).

Teen romances appear to bring students into the library. According to Parrish and Atwood, wighth and ninth graders in the 1980s got their romance novels equally from friends, bookstores, and school libraries. Tenth graders favored drug and grocery stories and the school library. Twelfth graders showed the greatest diversity: Over half

□ Teen romances are very popular with teenage girls.

□ Reading levels range from grades four to seven.

41 d

got their books from friends and the public library, 37 percent from bookstores and the school library, with little use of home and drug/grocery stores. Thus, despite the existence of other places to get teen romances, the school library still plays a significant role as a source of reading for this genre.

There is evidence that reading teen romances promotes reading. The following, quoted by Parrish (1983), sounds very much like Haugaard's report of how comic books stimulate reading. The writer is a 14-year-old girl: "I am the kind of person who hates to read, but when my mother brought home a Silhouette book for me to read, I just couldn't put it down" (p. 615)

of reading teen

romances.

□ There is no research on the behavioral effects

Just as there has been concern about the content of comic books, there is concern about the content of teen romances. There has been no research on the behavioral effects of teen romances, but concerned teachers and parents may be interested in reading Sutton's thoughtful review. Sutton (1985) gives the teen romance cautious approval, suggesting that while we regard "the lesser lights of paperback fiction as the competition" (p. 29), they have some merit

Characterization is minimal, the writing is less than graceful ("They were all being so polite and civilized the twins thought they would throw up.") and even romance is overshadowed by the soap opera suspense. But it does work: the bare bones plots, hokey and hoary, move. The links between successive volumes are clever, and you really want to know . . . what Jessica is going to pull next (p. 27).

A recent series of studies suggests that teen romances may have another important use: They may be ideal sources of comprehensible and interesting reading material for some acquirers of English as a second language.

became enthusiastic Sweet Valley Kids readers. readers ages five to eight. Her subjects, all adults, same characters at an even younger age, written tor mended Sweet Valley Kids, novels dealing with the again, the texts were too difficult. Cho then recomyounger age, written for readers ages 8 to 12. Once Cho then asked her subjects to try Sweet Valley ress in English. Cho first suggested that her subjects Twins, novels based on the same characters but at a fort, and with extensive recourse to the dictionary. too difficult; they could only be read with great effor girls ages 12 and older. These books proved to be read books from the Sweet Valley High series, written residence in the United States, had made little progbased) study of English in Korea and considerable their thirties who, despite years of formal (grammar-1995a, 1995b) worked with a group of women in Kyung-Sook Cho (Cho and Krashen 1994,

Cho reported significant vocabulary growth in her readers (Cho and Krashen 1994), and also gathered informal evidence of their progress, including reports from their friends (Cho and Krashen 1995a). Perhaps the most impressive result is the report of one of her subjects one year after she starting reading Sweet Valley books. After one year, this subject, who had never read for pleasure in English prior to this study, had read all 34 Sweet Valley Kids books, had read many books from the Sweet Valley Twins and Sweet Valley High series, and had started to read Danielle Steele, Sydney Sheldon, and other authors of romances in English (Cho and Krashen 1995a).

Light Reading: The Power of Magazines

Rucker (1982) provides a strong demonstration of the power of magazines to promote and improve reading ability. Rucker gave junior high

□ Teen romances worked for some adult second language acquirers.

□ Magazine reading appears to promote more reading.

school students questionnaires probing their interests. A few months later, he provided a random sample of the students with two free magazine subscriptions relating to their interests. One group of students received the magazines for one year, another for a year and a half. Neither the students nor their parents were informed that an experiment was being conducted, and even teachers did not know about the subscriptions.

Rucker reported that students who received the magazines had superior gains on standardized tests of reading (but not on a test of "language," i.e., mechanics and spelling). A reasonable interpretation of these results is that the magazines themselves served as valuable input and that they stimulated even more reading. As Rucker points out, magazines are the most "reader interest specific" of all mass media and "may thus consequently be the most valuable as stimuli to reading" (p. 33).

Is Light Reading Enough?

It is sensible to suppose that what is read matters. Despite the benefits of light reading, a diet of only light reading will probably not lead to advanced levels of development. Only a few studies bear on this issue, and they are correlational, which means we cannot be sure whether reading preferences are a cause or result (or both) of reading ability. The studies, however, suggest that reading comprehension and vocabulary development are related to what is read.

□ A diet of light reading only isn't enough.

Rice (1986) reported that adults with better vocabularies "tended to read more sophisticated materials," such as technical journals, history, literary magazines, and science magazines. Hafner,

Palmer, and Tullos (1986) found that better readers (top one-half on a reading comprehension test) in the ninth grade tended to prefer "complex fiction" (historical fiction, science fiction, mystery, adventure, personal development, personal insight), while "poor readers" (bottom one-half) tended to prefer "how-to-do-it" books, science books, hobby books, and books on art, music, and history. Southgate, Arnold, and Johnson (1981) found that seven- to nine-year-olds who were better readers preferred adventure books, while "funny books" were more popular with less advanced readers.

Thorndike (1973), in his large-scale study of reading comprehension in 15 countries, reported that for 14-year-olds the types of reading that correlated best with reading comprehension ability were, in order, 1) humor; 2) history and biography; 3) science fiction, myths, and legends; and 3) adventure and current events. Thorndike also reported that by the end of secondary school the pattern had changed somewhat: While reading of sports, love stories, and school stories was negatively correlated with reading comprehension, history and biography, technical science, and philosophy and religion showed the strongest positive correlation.

There is some agreement among the studies; science fiction and adventure books seem to be consistently preferred by good readers. There are also some contradictions: Good readers, according to Thorndike, prefer history and religious books, but in the Hafner, Palmer, and Tullos study, poor readers preferred these topics. (An obvious problem in relating reading growth to genre is that there might be quite a bit of variation in complexity within one kind of reading. Clearly, research in this area has just begun.)

The Cure

3

As noted earlier, Greaney (1980) identified a group of "predominately comic book readers," fifth-grade children who did far more comic book reading than book reading. These children were not significantly below the group average in reading comprehension but were not as proficient as children classified as "predominately book readers."

The results of these studies do not imply that light reading is to be avoided. As argued earlier, light reading can serve as a conduit to heavier reading: It provides both the motivation for more reading and the linguistic competence that makes harder reading possible. Reassuring and supporting evidence come from studies that show that many children who de extensive free reading eventually choose what experts have decided are "good books" (Schoonove 1938), and studies show that readers gradually expand their reading interests as they read most (LaBrant 1958). Also, books children select on the own are often harder than their official "reading level" (Southgate, Arnold, and Johnson 1981).

□ Light reading isn't enough, but it can lead to

heavier reading

Do Rewards Work?

The studies presented in this chapter suggest that the intrinsic reward of reading is so great that it will stimulate additional reading. They suggest that we do not need extrinsic rewards for reading that is, gold stars, cash awards, reading club membership, or other incentives. Smith (1988) argues, in fact, that awards can backfire:

Show a child that the payoff for reading or writing something is a treat, a token, a happy face or a high mark, and that is what the child will learn is the price literacy should extract. Every child knows that anything accomplished by coercion, no matter how benign, cannot be worth doing it its own right. (p. 124)

What Does the Research Say?

Research offers no support for the use of rewards and suggests, in agreement with Smith, that rewards may be harmful.

McLoyd (1979) asked second and third graders to read from "high-interest" books under three conditions: "high reward," "low reward," and "no reward." In the high reward condition, children were promised a reward that they rated the most highly out of six presented. In the low reward condition, children were promised a reward that they rated the least highly out of six presented.

It was explained to the rewarded children that the reward would be granted if they read until they reached a marker in the book indicating 250 words and that the experimenter was interested in their opinion of the book. Rewards were not mentioned to the children in the no reward condition; rather, they were simply asked to read up to the indicated place in the text and to then give their opinion of the book. The reading sessions lasted 10 minutes.

The difference between the two rewarded groups was not statistically significant, but both rewarded groups was not statistically significant, but both rewarded group. The rewarded groups clearly read only what they had to in order to get the reward, barely going beyond the 250-word marker. The non-rewarded readers went well beyond this point; they read more than twice as much as the rewarded groups.

Children appear to be perfectly willing to read without rewards (witness the success of Harry Potter) and do not even think of rewards when asked about how to encourage reading, in contrast to teachers.

☐ Rewarding reading sends the message that reading is unpleasant or not worth doing without a reward.

Worthy (2000) asked 419 middle school children and 35 teachers for their suggestions for motivating students to read. The schools were from a range of ethnic and socioeconomic groups.

The students were asked: "What could your language arts teacher do to make students more motivated to read?" Students were asked to write up to three suggestions, and made a total of 509 suggestions. Teachers were asked, "What do you think are the best ways of motivating students to read?" and provided "multiple suggestions." Both groups recommended providing more interesting books (students = 45 percent of suggestions, teachers = 35 percent), and both recommended more student choice and more read-alouds. Nine student suggestions were for more time to read, but this was not mentioned by teachers.

Of interest to us here is incentives: "Teacher and students made strikingly different suggestions regarding incentives. Although 29% of teacher suggestions were focused on rewarding or coercing students to read (i.e. grades, "nagging") only 9% of students' suggestions fell into this category, and of ten their suggestions were obviously facetious (e.g. 'Give us \$10 for every page we read)" (p. 448).

Worthy noted that, "Although most teacher spoke of the importance of developing intrinsic motivation to read, more than half said that they used external motivators as inducements to reading" (p. 448).

□ When asked how to encourage reading, students rarely

recommend rewards

Similarly, Ivey and Broaddus (2001) asked 1,765 sixth graders what stimulated them to read only 7 percent mentioned external rewards.

Bintz (1993) also found that many teachers be lieved in incentives. He asked teachers what would promote student interest in reading. Teachers fell

that many students were not interested in reading and that they needed to be forced to read and needed to be "held accountable" for their reading. Many of the teachers, Bintz concluded, were unaware that many of these "reluctant" readers were avid readers of self-selected reading outside of school. The students, according to Bintz, were not reluctant to read but were only reluctant to read school-assigned material.

Reading Management Programs

A number of studies have attempted to determine the impact of reading management programs, programs in which children are tested on what they read and rewarded for points earned on these tests. McQuillan (1997) reviewed studies of the effectiveness of these programs and concluded that there was no evidence that they improved reading achievement or attitudes toward reading. I have recently reviewed studies of the best known of these programs, Accelerated Reader (Krashen 2003d), and summarize my results here.

Accelerated Reader (AR) has four components:

- Children are provided with substantial access to books.
- Children read books that they select themselves (AR recommends one hour per day for the voluntary reading).
- Children earn points by taking tests on the content of the books, tests that focus on literal meaning.
- 4. Children get prizes in exchange for the points they earn on the tests. (The AR company points out that this feature is not intrinsic to AR, but is at the discretion of the school.)

□ Studies of Accelerated Reader do not provide evidence that tests and rewards are helpful.

We would not be surprised to learn that a program that includes items 1 and 2 will increase reading proficiency. As discussed in this chapter, there is strong evidence that when readers are provided access to comprehensible and interesting reading material, they read more. As documented in chapter 1, those who read more, read better. The question of interest, then, is whether features 3 and 4 make any difference. Do tests and rewards help? The obvious study that would settle this is to see whether programs such as Accelerated Reader are better than simply providing more books and more time to read. Unfortunately, this kind of comparison has not been done.

Studies of Accelerated Reader

Most studies of the efficacy of AR compare AR to doing nothing special; that is, they compare students in AR programs to students in traditional language arts classes in which no effort is made to increase access to books, encourage reading, and provide more time to read. Many of the results are positive, with AR students doing better on standardized tests than comparison students in traditional language arts classes. Even when results are positive, however, they do not tell us which as pects of AR are responsible for the results. I reviewed these studies in detail in Krashen (2003d).

Not all of these studies, however, show that AR was in fact more effective than traditional language arts instruction. Goodman (1999) reported that AR students gained only three months over an academic year on standardized tests of reading comprehension. In one of the reports on the official AR Web site (renlearn.com; Report 36), AR was done in two middle school classrooms for one year. One class showed gains, the other did not: Mathis (1996) compared progress with AR for a group of

sixth graders with gains made by the same students the year before and found no difference. It could be argued that the duration of these studies was not long enough to show the impact of AR: Recall that the impact of sustained silent reading is greater when studies are long term. This does not help explain the results of the next study, however.

Pavonetti, Brimmer, and Cipielewski (2003) administered the Title Recognition Test to seventh graders in three districts. The Title Recognition Test is a checklist that correlates highly with other measures of reading exposure as well as with various measures of reading achievement (see discussion in "The Author Recognition Test" section in chapter 1). For all three districts combined, Pavonetti et al. reported no difference between those children who had had AR and those who had not.

Only three studies have attempted to deal with the issue of what aspect of AR is effective. In all three, however, it appears to be the case that the AR group had more exposure to comprehensible text, and in two studies the comparison group did not do pure "recreational reading." In all three studies, the results are inconsistent and unclear.

Conclusions on AR

Despite the popularity of AR, we must condude that there is no real evidence supporting it, no real evidence that the additional tests and rewards add anything to the power of simply supplying access to high-quality and interesting reading material and providing time for children to read.

This is not to say that I have proven that AR is ineffective. I have only concluded that data supporting it do not exist. Although McLoyd's results

suggest that rewards actually inhibit reading, we must withhold judgment until additional controlled studies confirm this. What we can conclude, however, is that the enthusiasm for AR is not supported by research. Before purchasing AR and submitting students to tests, a more prudent policy might be to ensure that high-interest reading material is easily available to students, and that students have time to read and a place to read."

Notes

1. These results are summarized below. In all cases, poverty was a significant predictor of achievement. The number of books per student and amount of library staffing were also consistent predictors of achievement. In some studies, these relationships held even when poverty was controlled, but in others they were only present when poverty was not controlled.

Predictors of Test Score Performance

Staffing	books	poverty		Study
yes*	yes*	yes	8	II Colo,
yes**	700	yes	RC, LA,	Alaska
yes	no	contr.	ñ	Pa.
yes*	yes*	yes	RC	Oreg.
yes	yes	yes	ñ	Tex
yes	yes	contr.	lit, M	Ind.
yes	yes	yes	Sc. M,	Mass.
yes	yes**	уез	80	Iowa

^{* =} books and staffing combined as one factor

Sources: Colorado II = Lance, Rodney, and Hamilton-Pennell (2000a); Alaska = Lance, Hamilton-Pennell, Rodney, Petersen, and Sitter (1999); Pennsylvania = Lance, Rodney, and Hamilton-Pennel (2000b); Oregon = Lance, Rodney, and Hamilton-Pennell (2001); Texas = Smith (2001); Indiana = NCB (2000); Massachusetts = Baughman (2000); Iowa = Rodney, Lance, and Hamilton-Pennell (2002).

- 2. For additional arguments against the overemphasis on phonemic awareness and phonics, see Krashen (2002, 2003b); Smith (1994b).
- 3. The Fry formula is based on three random samples of 100 words. These samples can vary quite a bit. Note, for example, the variability in the three samples for *The Incredible Hulk* in table 2.2 (5.5, 9.2, 1.9). Daniel Krashen has suggested to me that the 9.2 sample may have been based on the speech of Bruce Banner, the Hulk's alter ego. Banter is a research scientist, and his speech reflects his profession.
- Hearth?" (Dirda 2003, p. 56). to the earnest and didactic 'classic comics'.... Who omic books, but tells us, "I never really cottoned reading autobiography, shares his enthusiasm for never mentioned (for a review of these studies, see without a list to choose from, classic comics are would pick up something called The Cloister and the Witty and Sizemore 1954). Michael Dirda, in his alist of 15. Classic comics ranked ninth out of 15. ferred; each student was asked to choose four from students to indicate which comic types they predren. Wayne (1954) asked 297 dence that they are not all that popular with chilacceptable to parents and teachers, there is evi-When children are asked which comics they prefer, 4. Although classic comics are probably more seventh-grade
- 5. There has been some concern that the pictures in comic books will allow children to ignore the text and might actually interfere with learning bread (Wertham 1954). According to language acquisition theory, however, pictures can actually help, because they can provide clues that shed ight on the meaning of an unfamiliar word or pammatical structure—they can, in other words, help make texts more comprehensible (Krashen

^{** =} differences emerge if poverty not controlled

RC = reading comprehension

contr. = statistically controlled

lit = literacy; M = math; Sc = science; LA = language arts

1985). As one comic book reader, a preteen acquirer of English as a second language, put it: "[T]hey got picture . . . colorful picture to help the readers to understand like how, what is happening, going on" (Guofang, quoted in Norton 2003, p. 143).

But some children do ignore the text and only look at the pictures. Bailyn (1959) found that Z percent of the fifth- and sixth-grade boys she observed reading comic books "concentrated mainly on the pictures." In their sustained silent reading study, Arlin and Roth (1978) reported that poor readers appeared to do more picture reading of comic books than good readers did.

Why are some children picture readers? At first glance, the picture reading syndrome is puzzling, because pictures do not tell the whole story in most comics, and children do not typically ignore print in their environment. Here are some possibilities:

A difficult text combined with attractive pictures. While readers can tolerate some "noise" in texts too many unknown elements will discourage at tempts at comprehension (Frebody and Anderson 1983). A second grader may not even try to read the relatively complex text and storyline of comic such as X-Men or Negation, but might find the pictures of great interest.

Mistaken assumptions about reading. Some pix ture readers may be able to read substantial portions of the text but do not attempt to read. It possible that their incorrect assumptions about reading discourage these children from trying tread. Because of "reading lessons" in school, they may have the mistaken impression that in order tread they need to know every word in the text Such an assumption sets up a defeating sequence of events: The reader reads less, and as a result has

less of a chance to develop reading ability and acquire more language.

These are only possibilities. Frank Smith has pointed out to me that if they are true, it does not follow that picture reading can be cured by denying the child comic books. More comic reading, not less, may be the solution. With more exposure, the child's interest in the story might stimulate attempts at reading.

6. One report appears in two versions: Vollands, Topping, and Evans (1996) is an ERIC report, while Vollands, Topping, and Evans (1999) is a slightly abbreviated version appearing in *The Reading and Writing Quarterly*. The report included two independent studies, each lasting six months. In both cases, it is claimed that AR was compared to a group that did recreational reading.

Wollands, Topping, and Evans: Project A: As discussed in detail in Krashen (2003d), this study provides no clear support for AR. The comparison group children had to give "written feedback" on what they read, and the AR group was read to in addition to doing self-selected reading. Jeff McQuillan (personal communication) has pointed out that if we add the read-aloud time to the SSR times, the AR group had considerably more exposure to comprehensible text, 3,225 minutes compared to 2,850 minutes for the comparison group. As noted earlier in this chapter, read-alouds contribute strongly to literacy development

The results are not clear. The AR group made better gains on one measure of reading comprehension as well as on a test of reading accuracy, but both groups declined on another test of reading omprehension, given only to a random

subsample of the AR group. The AR group appeared to decline less, however, than the comparison group did.

This study is not a comparison of AR versus recreational reading alone. It is a comparison of two programs in which students in both programs were held accountable for what they read, and the children in the AR group had more exposure to comprehensible text than comparison children did.

Vollands et al.: Project B: The comparison group in this study was also engaged in an incentive program. Vollands et al. noted that that "children would write their name on a publicly displayed chart when they had finished their book" (1999, p. 54). In addition, comparison children also read from a selection of novels, with all reading done aloud by the students, and they had to answer comprehension questions on the reading. This is not free voluntary reading. If we only consider the genuine free reading done by the comparison group, the AR children had slightly more exposure to comprehensible text (see Krashen 2003d for details).

AR children in this study took tests but did not receive rewards. Points earned, however, were displayed in public.

The results were inconsistent. Comparison students made larger gains on one standardized test of reading comprehension (Edinburgh), but AR students made larger gains on another reading comprehension measure (Neale), with comparisons making no gains at all on the Neale, a mysterious result, because comparisons were considered to be "good readers." This inconsistency may be due to the fact that all 26 comparison students and nearly all AR students took the Edinburgh test, but only a random sample

of 11 AR students and 12 comparison students took the Neale comprehension test.

It is difficult to conclude much of anything from this study: Both groups had similar incentives (recognition), and results were mixed.

Facemire (2000) also used a comparison group that was engaged in recreational reading. AR was used with 15 third graders in a high poverty area of West Virginia. AR students gained five months over the nine-week period, and comparisons gained three months. This study is an important step in the right direction but has a few problems. First, it is likely that the AR students read more than the comparisons did; AR students had "at least" 20 minutes per day of SSR, while comparisons had "access" to the library, AR students had a regularly scheduled 80 minutes per week.

Second, each group contained one unusual outlier. The AR group included one child who gained 2.3 years in nine weeks, and the comparison group included one child who got much worse in reading, dropping more than one year during the nine-week study. If we remove these outliers, the groups look nearly the same, with the AR group gaining four months and the comparisons three and one-half months.

7. A study of EFL students in Japan (Kitao, Yamamoto, Kitao, and Shimatani 1990) contains some interesting statistics that show that the usual means of encouraging reading don't work very well. They compared reading graded readers as a course requirement with reading graded readers for extra credit. All students had to hand in book reports to receive credit. Two hundred twenty graded readers were made available.

Those who read as a requirement read only what was assigned: 92 out the 93 students did the assigned reading, but 87 of them read only one book. Only 69 out of the 207 who were offered extra credit handed in book reports. Of those who handed in reports, the average was slightly more than two per student (2.2).

Why these sad results? There are several possibilities:

- The book report requirement made reading much less desirable.
- 2. The books were simply not interesting Even though students rated the books as some what interesting (mean of 4.44 on a 1 to 6 scale) "interest" was not the reason the readers read When the readers were asked what motivated them to read, only five listed "interesting books" their first reason, and only 17 listed this as their second reason.
- 3. The students had little time to read out side of school. When the nonreaders were asked why they did not read, 70 out of 128 indicated they were too busy as their first reason, and 37 more mentioned this as their second reason.

What we can conclude is that for university students, reading graded readers for grades or extra credit, with required book reports, does not produce spectacular results.

Other Issues and Conclusions

S

The Limits of Reading

Even with massive free voluntary reading of appropriate texts, complete acquisition of the conventions of writing may not take place; even very well-read people may have gaps in their competence. Typically, these gaps are small, and many readers will recognize them as problems they experience. Here are some examples:

Spelling demons: Words like "committment" (or is it "commitment"?) and "independence" (or it "independence"?).

Punctuation: Does the comma go inside or outside the quotation mark?

Grammar: Subject-verb agreement is sentences such as: A large group of boys is (are?) expected to arrive tomorrow.

These errors usually do not make much of a difference in terms of communication. "Independence," for example, communicates the idea just well as "independence." Obeying the rules, however, is important for cosmetic reasons; readers often find written language containing errors irritating, and this reaction can detract from a writer's message.

Why do well-read readers have gaps? What mevents the full acquisition of the written lanuage? One explanation is that not all the print is thended to; that is, successful reading for meaning

☐ Even with extensive FVR, gaps in literacy may remain.

ر پ ا

□ Good readers do not attend to everything on the page.

does not require the full use of everything that appears on the page. It has been demonstrated (Goodman, in Flurkey and Xu 2003; Smith 1994) that fluent readers generate hypotheses about the text they are about to read, based on what they have read already, their knowledge of the world and their knowledge of language, and only attend to those aspects of print they need to confirm the hypotheses. For example, most readers can guest what the last word of this sentence is going to Good readers don't need to fully and carefully perceive the "be" at the end of the sentence in order understand it; they just need to see enough a confirm that it is there.

Thus, competent readers do not pay attention to every detail on the page, and they may fail to at quire the its/it's distinction or whether certain words end in ence or ence. These tiny gaps, in my view, are a small price to pay for fluent and efficient reading.¹

Even those aspects of print that are attended to and understood may not be acquired. Several the searchers have hypothesized that affective factors may be responsible for failure to acquire some aspects of language. Dulay and Burt (1977; see also Dulay, Burt, and Krashen 1982) have suggested that for language acquisition to occur, language acquirers need to be "open" to the input, or have low "Affective Filter." When language acquires are anxious, or put on the defensive, the input in the understood, but it will not reach those parts the brain that are responsible for language acquires the brain that are responsible for language acquired that the defensive, the "language acquisition (what Chomsky has called the "language acquisition device"; see Chomsky 1965). A block, the Affective Filter, will keep the input out.

□ The "affective filter" prevents input from reaching the "language acquisition device."

ley club results in a lower Affective Filter, with writers possess. Smith's idea is quite consistent sore of the input reaching the language acquisi meself a member or potential member of the literwith the Affective Filter hypothesis: Considering bsorb the enormous amount of knowledge that tho read and write, they "read like writers" and otential members of the "literacy club," people mith argues, when readers conclude that they are and deciding they want to be like them. Similarly, not by deliberate study but by observing others ode, slang, and behavior patterns of their peers Remagers, for example, learn the elaborate dress min groups, or "clubs," and expect to learn. ider themselves to be potential members of cer-* learning occurs effortlessly, when learners conon device. Smith (1988) has pointed out that a great dea

What can be done to fill these tiny gaps, those that remain even after massive reading and after satrance into the literacy club? We do, unfortunately, need to be concerned, because society's tandards for writing accuracy are 100 percent. Errors in spelling, punctuation, and grammar are not alerated in writing intended to be read by others, unless it is informal e-mail.

Direct teaching and the use of grammar handooks and dictionaries can help us fill at least part
if the gap. Such conscious learning of language is
the limited, however, and needs to be used with
aution—an excessive concern with form or corextress while trying to work out new ideas in
witing can be very disruptive. Experienced writis know this and limit their "editing" to the final
aft, after their ideas have been worked out on the
uge (see, e.g., Sommers 1980). It also seems reamable to expect that only more mature students

□ When readers consider themselves to be potential members of "the literacy club," they acquire the enormous amount of information that writers possess.

□ Direct teaching can help fill some of the gap

will be able to develop extensive conscious knowledge; it might be most efficient to delay this kind of direct teaching until high school.

Given extensive free reading, however, and a genuine invitation to join the literacy club, readers will acquire nearly all of the conventions of writing. With enough reading, good grammar, good spelling, and good style will be part of them, absorbed or acquired effortlessly.

Writing

Writing deserves more space than I am giving it here. My goal, however, is not to provide a complete survey of what is known about writing and how writing ability develops, but to make two crucial points:

- Writing style does not come from actual writing experience, but from reading.
- Actual writing can help us solve problems and make us smarter.

Writing Style Comes from Reading

The research reviewed earlier strongly suggests that we learn to write by reading. To be more precise, we acquire writing style, the special language of writing, by reading. We have already seen plenty of evidence that this is so: In chapter I we saw that those who participate in free reading programs write better (e.g., Elley and Mangubha 1983; McNeil in Fader 1976), and those who report they read more write better (e.g., Applebee 1978 Alexander 1986; Salyer 1987; Janopoulous 1986 Kaplan and Palhinda 1981; Applebee, Langer Mullis, Jenkins, and Foertsch 1990). As noted in chapter 1, Lee and Krashen (1996) and Lee (2001)

have confirmed that more reading is related to better writing in Chinese (Mandarin).

There are other reasons to suspect that writing style comes from reading. The "complexity argument" (see chapter 1) applies to writing as well. All the ways in which "formal" written language differs from informal conversational language are too complex to be learned one rule at a time. Even though readers can recognize good writing, researchers have not succeeding in completely describing just what it is that makes a "good" writing style good. It is, therefore, sensible to suppose that writing style is not consciously learned but is largely absorbed, or subconsciously acquired, from reading.

□ Formal language is too complex to be learned one rule at a time.

According to common wisdom, we learn to write by actually writing. The reading hypothesis asserts that this is not true, at least as far as style is concerned. Smith (1988) tells us why we do not learn to write by writing:

I thought the answer [to how we learn to write] must be that we learn to write by writing until I reflected on how little anyone writes in school, even the eager students, and how little feedback is provided No one writes enough to learn more than a small part of what writers need to know. (p. 19)

The research confirms Smith's reflections.

Actual writing in school appears to be infrequent. Here is one typical report: Applebee, langer, and Mullis (1986) asked students how many essays and reports they had written over six weeks for any school subject. Only 18.6 percent of the fourth graders wrote more than 10, while only 18 percent of the eleventh graders wrote more than 10.

- ☐ We do not learn to write by writing.
- □ The actual amount of writing done by a typical student is low.

47 d

Writing outside of school is also not frequent Applebee et al.'s 11th graders did the most out-of-school writing, but only 17.4 percent kept diaries, 37.3 percent said that they wrote letters to friends, and 74.8 percent said they wrote notes and messages at least weekly. (See also Applebee et al. 1990 and Snow, Barnes, Chandler, Goodman, and

Hemphill 1991 for similar results.)

investigated to my knowledge. Thanks to e-mail, people may be writing more lar estimates of reading and writing frequency sition. (See also Evans and Gleadow 1983 for simi writing as an important source of language acqui acquired, these data severely weaken the case for sidering the complexity of the system that is to be More likely, the true ratio is closer to 150 to 1. Convery fast writing rate (typing at 60 words per min slow reading rate (200 words per minute) and a ent one of them (high verbal adults) as a represenand writing behavior of several groups, and I pres these days. This words in reading than in writing, a ratio of 25 to 1 ute), this still means that people deal with far more per week in "total reading," but only two hours per tative sample. These subjects reported 15.1 hours frequency outside of school. Rice probed reading .1 hour for "long writing"). Assuming even a very week in writing (1.9 hours for "short writing" and least a crude comparison of writing and reading Research by Rice (1986) allows us to make a possibility has not

than in writing.

☐ People encounter far more language in reading

More Writing Does Not Mean Better Writing

Several additional reports have confirmed that students do little writing in school and outside of school: The recently published National Council on Writing report (2003) noted that according to

spend on the average only three hours per week or less on writing assignments. They recommend that schools double the amount of time students spend writing, and insist that "writing be taught in all subjects and at all grade levels" (p. 3). The research, however, does not support this simple solution: More writing does not necessarily lead to better writing.

and those who wrote one theme a week. In addicollege freshmen who wrote two themes per week small differences were found, however, between comparison classes. did not produce significantly better writing than that writing classes that emphasized free writing included unpublished dissertation research, found tion, Hillocks (1986), after an extensive review that lty. An exception is Lokke and Wykoff (1948); very quency and quality in Chinese are Lee and that writing quantity is not related to writing qualscribes unpublished dissertation research showing Krashen (1997) and Lee (2001). Hunting (1967) deshowing no relationship between writing freciency. First language studies in English include students do does not increase their writing profi-Applebee et al. 1990 and studies summarized in (1964); and Varble (1990). First language studies Dressel, Schmid, and Kincaid (1952); Arnold Krashen 1984), increasing the amount of writing ers do more writing than poor writers (see Although some studies show that good writ-

Second language studies include Burger (1989) and Mason (2003). Burger's subjects were students of English as a second language in Ottowa, Canada, enrolled in sheltered subject matter courses (teaching language through content). She reported that adding an extra class on writing, which included correction of students' written er-

☐ Numerous studies show that increasing writing quantity does not affect writing quality.

rors, had no impact on writing quality or on tests of general English proficiency.

proficiency. ing in English, with no dividends in increased lish devoted an extra two hours per week to writ development: The two groups who wrote in Eng writing clearly made no contribution to language semesters. In addition, the extra time devoted to curacy (or reading achievement) after three ence among the three groups in gains in writing acand getting errors corrected. She found no differand writing commentaries in the second language commentaries in the second language (English), was read in the first language (Japanese), writing tary reading: writing short commentaries of what different activities as a supplement to free volundent) EFL in Japan, compared the effect of three Mason (2003), in a study of adult (college stu

Hypothesizing that writing style comes from reading, not writing, is consistent with what is known about language acquisition: Language acquisition comes from input, not output, from comprehension, not production. Thus, if you write a page a day, your writing style or your command of mechanics will not improve. However, other good things may result from your writing, as we shall see in the next section.

output; from

comprehension, not

☐ Language acquisition comes from input, not

No studies, to my knowledge, have attempted to find a relationship between what is read and writing style. Such a relationship surely exists, because different styles have different linguistic characteristics. Smith (1988) has noted this, and advises "To learn to write for newspapers, you must read newspapers; textbooks about them will not suffice. For magazines, browse through magazines rather than through correspondence courses on magazine writing. To write poetry, read it" (p. 20).

heavier reading more comprehensible. reading will provide the competence that makes as emphasized throughout this book, doing light say-type style. But reading novels will provide at than someone who has read little of anything. And, reader will write a much better essay, stylistically, least some of the features of essay style; a novel have to read lots of essays to develop the eswill not make you a competent essayist; you will of formal, expository prose. Thus, reading novels for example, some but not all of the characteristics styles (Biber 1986): So-called narrative style has, of prose, there is also considerable overlap among extent. Although there are clearly different styles anything at all will help all writing, at least to some Nevertheless, it is probably true that reading

What Writing Does

Although writing does not help us develop writing style, writing has other virtues. As Smith (1988) has pointed out, we write for at least two reasons. First, and most obvious, we write to communicate with others. But perhaps more important, we write for ourselves, to clarify and stimulate our thinking. Most of our writing, even if we are published authors, is for ourselves.

As Elbow (1973) has noted, it is difficult to hold more than one thought in mind at a time. When we write our ideas down, the vague and abstract become clear and concrete. When thoughts are on paper, we can see the relationships among them, and can come up with better thoughts. Writing, in other words, can make you smarter.

Readers who keep a diary or journal know all about this—you have a problem, you write it down, and at least some of the problem disappears. Sometimes the entire problem goes away.

Writing can help us think through and solve problems.

Here is an example of this happening, a letter written to Ann Landers in 1976:

Dear Ann: I'm a 26-year-old woman and feel like a fool asking you this question, but—should I marry the guy or not? Jerry is 30, but sometimes he acts like 14...

Jerry is a salesman and makes good money but has lost his wallet three times since I've known him and I've had to help him meet the payments on his car.

The thing that bothers me most, I think, is that I have the feeling he doesn't trust me. After every date he telephones. He says it's to "say an extra goodnight," but I'm sure he is checking to see if I had a late date with someone else.

One night I was in the shower and didn't hear the phone. He came over and sat on the porch all night. I found him asleep on the swing when I went to get the paper the next morning at 6:30 A.M. I had a hard time convincing him I had been in the house the whole time.

Now on the plus side: Jerry is very good-looking and appeals to me physically. Well—that does it. I have been sitting here with this pen in my hand for 15 minutes trying to think of something else good to say about him and nothing comes to mind.

Don't bother to answer this. You have helped me more than you will ever know.—Eyes Opened. (Permission granted by Ann Landers and Creators Syndicate.)

Perhaps the clearest experimental evidence showing that writing helps thinking is from a series of studies by Langer and Applebee (1987). High school students were asked to read social studies passages and then study the information in them either by writing an analytic essay on an assigned question relating to the passage, or by using

other study techniques (e.g., note taking, answering comprehension questions, writing summaries, "normal" studying without writing). Students were then given a variety of tests on the material in the passages. Langer and Applebee reported that "in general, any kind of written response leads to better performance than does reading without writing" (p. 130). In their third study, they showed that essay writing did not result in greater retention when the reading passage was easy; when the passage they read was difficult, however, essay writers did much better than students using other study techniques. Similar results have been reported by Newell (1984), Marshall (1987), and Newell and Winograd (1989).

Sometimes just a little bit of writing can make a big difference. In Ganguli's study (1989) college mathematics students who devoted three minutes per period to describing in writing an important concept covered in class easily outperformed a comparison group on the semester final exam. For a review of additional research supporting the hypothesis that writing "can make you smarter," see Applebee (1984), Boice (1994), and Krashen (2003a).

The Effect of Television

It is widely assumed that watching television has a negative effect on reading and other aspects of language. There are at least two commonsense arguments against television. First, watching TV takes time, time that could be spent reading (this is known as the "displacement argument"). The evidence, we will see, is not clear.

□ Studies show that writing can help thinking.

☐ It is widely assumed that television has a negative effect on reading. Not so.

TV programs do not provide the kind of input that

A second argument against television is that

would stimulate language development. According to the research, this assertion is true: TV language is not nearly as complex as book language. Nevertheless, a moderate amount of TV watching appears to be harmless; studies show no significant impact of TV watching on tests of literacy and school performance, unless the amount of TV watching is excessive.

Does More Television Mean Less Reading?

The view that television watching displaces reading is a popular one, and a few case histories appear to support it. Some of the college students in Carlsen and Sherrill (1988) blamed television for preventing them from becoming readers and, in the following case, for extinguishing their interest in reading: "I continued this avid interest in reading until I was in the fifth grade. Then the one-eyed monster, commonly known as television, entered the realms of our living room. . . . To say the least the television set replaced any book" (p. 138).

Some empirical studies appear to support this observation: In a study of sixth graders, Medrich, Roizen, Rubin and Buckley (1982) reported that high-volume TV watchers were less likely to be regular recreational readers than those who were moderate watchers, who in turn read less than those who were low-volume watchers. Amount of TV watching, however, is related to socioeconomic class, with lower-income families watching significantly more television (research reviewed in Comstock and Paik 1991). As we have seen, those in lower-income families have far less access to books. Thus, the correlation between TV watching and book reading may be spurious, a result of the fact that those in poorer families watch more TV

and have less access to books. Access to books could be the actual cause of less frequent reading, not more TV. This interpretation is consistent with other studies showing no relationship between TV watching and reading, reviewed below.

When television is new, it can displace reading. This effect occurs when TV is initially introduced into a community (Brown, Cramond, and Wilde 1974) and when viewers are very young (preschoolers in Burton, Calonico, and McSeveney 1979; six-year-olds in Gadberry 1980). Some early studies done when television was just introduced in the United States also showed that TV watchers read less (Coffin 1948; Maccoby 1951) as did a survey carried out in 1965–1966 of the impact of TV in 14 countries (Robinson 1972).

however, declined during this time. reading books and magazines; newspaper reading but also reported a slight increase in time spend TV watching from 1965 to 1985 in the United States inson and Godbey (1997) reported an increase in that "nonreaders" watched more television). Robbetween "light" and "heavy" readers but reported cent 1980, who found no difference in TV watching Singer, and Singer 1980; but see McEvoy and Vinthe United States show no relationship between and Vince 1958), and subsequent studies done in nonviewers, however (Himmelweit, Oppenheim, munity, TV viewers read just as Lyle, and Parker 1961; Robinson 1980; Zuckerman, television watching and book reading (Schramm, When television is more established in a commuch as

In an ethnographic study of three families, Neuman (1995) concluded that TV watching was much less likely to displace storybook reading to disldren when storybook time was "a structured family activity" (p. 168), taking place regularly at a

☐ When television is new, it can displace reading. When it is more established, it does not.

specific time. TV watching, she noted, was often a default activity, taking place "because it happens to be there when other, even possibly more attractive, activities are not" (p. 170).

Some studies suggest that television can actually encourage reading: The dramatization of a book on television increases the likelihood that the book will be read (Himmelweit, Oppenheim, and Vince 1958; Busch 1978; Wendelin and Zinck 1983; Campbell, Griswald, and Smith 1988). The Book Industry Study Group (1984, cited in Neuman 1995, p. 103) reported, however, than only 4 percent of children they studied chose a book on the basis of seeing or hearing about it on television. It is also possible that television does not increase all reading, but "redirects the existing reading choice of an audience" (Beentjes and Van der Voort 1988, p. 392).

It has also been argued that television discourages reading and other uses of literacy because television characters are rarely seen reading or writing, or even behaving as if they read and write. As Postman (1983) has pointed out:

It is quite noticeable that the majority of adults on TV shows are depicted as functionally illinerate, not only in the sense that the content of book learning is absent from what they appear to know but also because of the absence of even the faintest signs of a contemplative habit of mind. (p. 12)

The Language of Television

There is some basis for the second accusation presented at the beginning of this section: Television does not provide high-quality linguistic input

☐ Television does not provide high-quality

linguistic input

Fasick (1973) reported that the language used in children's books was significantly more complicated than the language used in children's television shows. For example, 64 percent of the sentences in books (five books recommended for reading aloud to preschool children) were "complex," compared to 34 percent for television ("Captain Kangaroo" and two cartoons). Moreover, the complex sentences found in books involved more subordination. In other words, the complex sentences of the books were more complex. Fasick concluded that the language of television was only about as complicated as the speech of average fifth graders.

Liberman (1979) analyzed the language used in programs popular in the 1970s. His analysis of sentence complexity is in close agreement with Pasick's results. In addition, Liberman also reported that the quantity of language used on television was low. Of the eight shows Liberman analyzed, the one using the largest number of words, M.A.S.H., contained a total of 3,395 words, and only 900 different words.

Liberman concluded that "very likely, the lexion of TV programming is under 5,000 words" (1979, p. 604), a pathetic result when one considers that estimates of first graders' vocabulary size range from 5,500 to 32,000 words (Smith 1941), Liberman's conclusions are supported by Hayes and Ahrens (1988), a study we discussed in chapter 2. Recall that Hayes and Ahrens found that the language of TV and ordinary conversation, whether between adults and adults or adults and children, was similar in terms of vocabulary. For all three, bout 95 percent of the words used were from the most frequent 5,000 words in English. Printed exts, including comic books, children's books, and magazines, contained far more uncommon words.

☐ The language of children's books is more complex than that of children's television.

☐ The quantity of language used on television is low.

es d

Television shows may provide some input of value for young children in early stages of language acquisition (Rice and Haight 1986). They do not, however, compare very well to reading, either in terms of the complexity or the amount of language they provide.

Television and Language Development

The impact of television on school-related measures, including reading comprehension, vocabulary, spelling, and "language arts," has been thoroughly studied. Several careful reviews of this research have been done (Williams, Haertel, Haertel, and Walberg 1982; Beentjes and Van der Voort 1988; Comstock and Paik 1991; Neuman 1995; see also studies by Neuman 1988 and Foertsch 1992), and they arrive at similar conclusions:

☐ The impact of TV on reading is negative only when TV watching is

- The overall impact of television is negative but slight. In fact, it is hardly detectable. No matter what measures of achievement are examined, more television watching means only slightly reduced performance in reading comprehension, vocabulary, and other school-related measures.
- Several studies find that achievement actually increases (slightly) with moderate amounts of TV watching; that is, the mon TV, the better watchers do on school-related tests. The relationship holds only up to about two hours of TV per day. After reaching this threshold, the relationship is negative: The more TV, the worse watchers do with TV watching showing a clearly negative impact when it exceeds four hours per tive impact when it exceeds four hours per support of the several structure.

day (see, e.g., Neuman 1988, 1995). Interestingly, increased television watching is associated with better literacy development for children acquiring English as a second language (Blosser 1988); this relationship did not hold true for beginners, however, for whom English-language television was probably not comprehensible.

• There is some evidence that television has more negative effects on older students (high school; Neuman 1988) and on those in higher socioeconomic classes (Beentjes and Van der Voort 1988), but the impact remains small. Also, as one would expect, there is evidence that the impact of television depends on what programs children watch, with lower achievement related to watching entertainment-type and adventure programs (Neuman 1988).

In general, however, correlations between what is watched and reading achievement are very modest (Degrotsky 1981; Potter 1987); the only substantial correlation reported by Potter (1987) was a negative relationship between watching soap operas and knowledge of science. Jönsson (1986), however, reported that preschool children whose parents "helped them to assimilate and understand television messages and kept a check on their televiewing" (p. 32) did better in school later m, and fifth graders who watched more documentaries did better in grade six.

felevision: A Summary

Much of what is on television may not be of ugh quality; nevertheless, television is clearly not the culprit in the "literacy crisis." Although the anguage of many TV shows is not impressive,

□ Television is not the culprit in the "literacy crisis." The culprit is the absence of reading material.

there is no clear evidence that TV displaces reading, and there is only a weak negative relationship between TV watching and performance on school-related tests. In fact, a little TV watching appears to be better than none at all, and TV watching may be helpful for second language acquisition. It is only when television watching is excessive that a clear negative effect appears, what Trelease (2001) refers to as "over-viewing" of TV.

Phrased slightly differently, it seems that those who do better on tests of language and literacy read more, but watch TV only a little less. Apparently it is not the presence of television that prevents children from reading; more likely, it is the absence of interesting books. Corteen and Williams (1986) agrex Consistent with the results of other studies, they found a negative correlation between amount of TV watching and reading achievement, but the size of the relationship was small, and they conclude that "the absence of reading practice is, in our view, more important than television" (p. 71).

A final bit of data confirms this conclusion Neuman (1995) compared the book choices of children who were heavy readers and heavy TV watchers, heavy readers and light TV watchers, and light readers and heavy TV watchers. The first two groups chose books of equally high quality (according to a scale measuring intellectual challenge, complexity, and richness of ideas), and both groups of heavy readers chose books of higher quality that the light readers. TV watching does not displace reading, nor does it mean lower-quality reading.

Second Language Acquirers

When second language acquirers read for pleasure, they develop the competence to move from the beginning "ordinary conversational"

level to a level where they can use the second language for more demanding purposes, such as the study of literature, business, and so on. As some of the studies discussed earlier in this volume show, when second language acquirers read for pleasure, they can continue to improve in their second language without classes, without teachers, without study, and even without people to converse with (e.g., Cho's Sweet Valley studies, discussed in chapter 2).

There are also compelling reasons for encouraging recreational reading in the first language for second language acquirers. In early stages, it can profoundly accelerate the development of reading ability in the second language.

First, if it is true that we "learn to read by reading" (Goodman 1982; Smith 1994b), it is obviously easier to learn to read in a language the reader understands. Thus, it will be easier to learn to read in the primary language. Once the ability to read is acquired, there is good evidence that much of this ability transfers to the second language, even when the writing systems are different (Cummins 1981). There is strong correlational evidence supporting this hypothesis, as well as compelling case histories (Krashen 2003c).

Second, as discussed in chapter 1, reading provides knowledge, knowledge of the world as well as subject matter knowledge. The knowledge gained through the first language can make second language input much more comprehensible.

Third, there is reason to suspect that the pleasure reading habit itself transfers. A pleasure reader in the first language will become a pleasure reader in the second language (Camiciottoli 2001).

□ Pleasure reading allows second language acquirers to improve without going to class.

□ Learning to read in the first language is a short cut to second language reading.

ego J

Evidence confirming that reading in the first language is helpful for second language acquisition comes from the documented success of bilingual programs that provide literacy development and subject matter teaching in the primary language. Such programs, it has been shown, teach English as well as or better than programs in which children are taught in English all day (for reviews, see Willig 1985; Greene 1997. An especially complete recent study is Oller and Eilers 2002).

and Yeok 1995; Krashen 1998b). reaction that discourages the use of the HL (Gupt even ridicule by more competent HL speakers, ambivalence/evasion" will not improve their herto use the language are met with correction and heritage language speakers report that their efforts input is available or not. Finally, some imperfed itage culture (Tse 1998) and may avoid using the through a stage of rejection or avoidance of the herdence that some heritage language speakers go are less obvious, but are powerful: There is evitage language competence, regardless of whether heritage language. Those in this stage of "ethnic tar one can develop the language. Other barries language at home, there are of course limits to how rier is lack of input; if one only uses the heritage living in another country. The most obvious barcontinue to develop one's primary language while Contrary to popular opinion, it is very difficult to velop their primary or "heritage" language (HL) dous help for those who wish to continue to de Recreational reading can also be of tremen-

A big part of the solution for those lacking in put or facing ridicule is a method that supplies in put and works for shy people: recreational reading. Several studies confirm that recreational reading works for heritage language development Tse (2001) reported that those who "beat the odds'

and managed to maintain unusually high levels of competence in their heritage language had access to reading materials in the heritage language, and nearly all developed an interest in reading in the language for pleasure. Cho and Krashen (2000) found four independent predictors of HL competence among second-generation Korean HL speakers: parental use of the HL, trips to Korea, TV watching, and recreational reading. McQuillan (1998b) reported that Spanish classes at the university of level for native speakers of Spanish that emphasized pleasure reading and discussion of texts of interest resulted in more enthusiasm for Spanish reading as well as better gains in vocabulary, as compared to traditional instruction.

It is easy to say that recreational reading in the primary language can be a big help, but there is a major barrier that prevents implementation: little access to books. A huge percentage of limited English speaking children in the United States are Spanish-speakers. As noted in chapter 2, Spanish speaking limited English proficient children have very little access to books in Spanish, at home (Ramirez et al. 1991) or in school (Pucci 1994)."

Conclusions

My conclusions are simple. When children read for pleasure, when they get "hooked on books," they acquire, involuntarily and without conscious effort, nearly all of the so-called language skills many people are so concerned about: They will become adequate readers, acquire a large vocabulary, develop the ability to understand and use complex grammatical constructions, develop a good writing style, and become good (but not necessarily perfect) spellers. Although free voluntary reading alone will not ensure the attainment of the

□ Few books are available in primary or heritage languages.

☐ Children who are readers will develop at readers will develop at least acceptable levels of literacy. Without a reading habit, children simply do not have a chance.

highest levels of literacy, it will at least ensure an acceptable level. It will also provide the competence necessary for dealing with demanding texts! Without it, I suspect that children simply do not have a chance.

When we read; we really have no choice—we must develop literacy. We rarely find well-read people who have serious problems with grammar, spelling, and so on. They write acceptably well because they can't help it; they have subconsciously acquired good writing style as well as all or nearly all of the conventions of writing.

□ Well-read people write well because they have subconsciously acquired good writing style.

contribute to intellectual growth, which will make reading will help build language competence and free voluntary reading. In turn, free voluntary ety of books, which can stimulate more free read signed reading and free voluntary reading wi literature more comprehensible and meaningful literature program is effective is if it results in mon ing. In fact, one of the ways we know that grow intellectually and be exposed to a wider van help each other: Through literature, students wi class, in my view, is primarily a literature class. As teachers, librarians, and parents. A language art ognize the value of reading that is assigned program consisting only of free reading. I also ree teachers, and reading that is recommended by I am not, however, proposing a language and

complements language

arts classes.

language program. FVR

☐ FVR is not a replacement for the

Our problem in language education, as Frant Smith has pointed out, is that we have confuse cause and effect. We have assumed that we find master language "skills" and then apply thes skills to reading and writing. But that is not the way the human brain operates. Rather, reading to meaning, reading about things that matter to us, the cause of literate language development.

☐ We have confused cause and effect.

If this view is even partly correct, it means that we need to create a print-rich environment for children both inside and outside school. It means that teachers need to be assured that creating such an environment will make their jobs easier, not harder, and will give more satisfying results.

dardized test scores. tence that shows up in real life as well as on stancompetence in reading and language arts, compe ductive day for teachers, with improved student environment will lead to an easier and more propleased to know that providing a print-rich nificantily improved.) Administrators will also be price of a few computers, a school library can be sigenvironment is not excessively expensive: For the has will be relieved to know that creating a print-rich ers are relaxing with a good book during sustained ronment is not a luxury but a necessity. (Administra-Administrators need to know that a print-rich envisilent reading sessions, teachers are doing their job teachers are reading to students, and when teach-Administrators need to know that when

Parents need to know that children will get far more benefit from being read to, from seeing parents read for pleasure, and from reading comics, graphic novels, magazines, and books, than they will from working through workbooks on sale at the local drug store.

☐ Parents should opt for actual reading rather than

using workbooks.

Finally, there is no question that reading is sleasant; as we have seen, the research literature is splete with reports of the pleasure children get rom free reading (see chapter 1, "The Pleasure of leading" section), as well as the boredom that ofernaccompanies some required reading and worklook exercises. While it may not be true that werything that is good for you is pleasant, the

☐ The true path to higher test scores is reading.

most effective way of building literacy happens to be the most pleasant.

Notes

- 1. The Smith-Goodman view of reading as the confirmation of predictions has been challenged. For discussion and a response to some critics, see Krashen (1999).
- 2. Smith's hypothesis explains why some of us cannot seem to write convincingly in certain styles, despite massive reading of texts written in these styles. I have read widely, but seem only to be able to write comfortably in the academic (or at best modified academic) style you are reading now, reflecting the club I have joined. (I have been told that even my personal letters read like journal papers.) Smith's hypothesis also explains, conversely, why reading just a modest amount of authors we admire can influence our writing style.
- compared to writing when one felt like it. The comwritten and double the number of new ideas, ing resulted in about double the number of page novel ideas they came up with. Regular daily with day. Subjects were asked to keep track of the num or to write regularly at scheduled sessions early conditions: not to write at all for several week writing (writing when the writer "felt like it") of more creative ideas than did "spontaneous sions encouraged more writing and the emergeno concluded that regularly scheduled writing se trol group reported the fewest number of new ber of pages written and the number of creative (control group), to write only when they felt like Boice asked college students to write under seven thinking is the work of Robert Boice. Boice (1983) 3. Strong confirmation that writing help

ideas. Boice has recommended a modest amount of regular daily writing in several of his publications (see especially Boice 1994). There is no doubt in my mind that it works. I would never have completed this edition of this book without following Boice's suggestions.

- 4. There is some evidence supporting the reasonable hypothesis that what children watch is related to how much they read. In agreement with other research, Zuckerman, Singer, and Singer (1980) found no overall relationship between time spent watching TV and time spent reading, but they also found that children who watched more "fantasy violent" programs tended to read less. Schramm, Lyle, and Parker (1961) also reported no relation between TV watching and book reading, but found that children who watch more TV read fewer comic books (see also Murray and Kippax 1978 for similar results; Williams and Boyes 1986, however, found a slight positive correlation between TV watching and comic book reading).
- and read higher-quality books. week (5 percent of her sample), read more books quality of reading" (p. 126). Although those who those who attended more than three films per ing. Cleary also reported that heavy moviegoers, little listening to the radio had less interest in readnewspapers and magazines), those who did very nours per day) read fewer books (but read more istened to the radio a great deal (more than three istening does not seriously restrict the amount or vision today. Cleary concluded that overall, "radio 1930s was remarkably similar to the impact of tele-Cleary (1939) found that the impact of radio in the programs do less reading, as mentioned in note 4. that children who watch more "violent fantasy 5. This is consistent with research showing

confirmed that computers do not bleed reading much time reading as those who do not. The results of a recent Gallup Poll (Gallup 2002) watching TV, but again the relationship was small come people are more likely to have computers time: Those who regularly use computers spend as puter was negatively correlated with time spent with time spent reading. Time spent on the comgames on the computer (!) all correlated positively the computer for financial purposes, and playing the computer. Time spent word processing, using and to read more. Of great interest is the finding class; this is important to do because higher-ineven when the researchers controlled for social that the relationship also held for different uses of reading. The relationship remained significant puter use and time spent reading books for adults: but small correlations between amount of coming. Robinson and Godbey (1997) reported positive ion, appears to be mildly positively related to read More computer use was associated with more Computer use, contrary to popular opin-

age appropriate, a child reading two books per and Ulanoff note that "even if these books were brary before entering fourth grade" (p. 114). week would finish every Spanish volume in the licent said that their cost was "prohibitive." Of 5,000 school librarians: 54 percent said that books writfor school libraries, only 300 were in Spanish. Puci books on one approved reading list for purchase ten in Spanish were difficult to obtain, and 70 per-Pucci and Ulanoff (1996) surveyed 32

other genre more comprehensible. A student about overlap: Reading in any genre will help make any Sweet Valley High novels will have more success to take ninth-grade world history who has read 100 differences between different genres. But there is 8. As noted in chapter 2, note 6, there are clear

Notes

have very few problems. published at the time of this writing) will probably has read all the Harry Potter novels (five have been done little or no recreational reading. And one who with the history texts than a classmate who has

References

- Alexander, F. 1986. California assessment program: Annual report. Sacramento: California State Department of Education.
- Allen, L., J. Cipielewski, and K. Stanovich. 1992. Multiple indicators of children's reading habits and attitudes: Construct validity and cognitive correlates. Journal of Educational Psychology 84: 489–503.
- Allington, R. 1980. Poor readers don't get to read much in reading groups. Language Arts 57: 872–876.
- Allington, R., S. Guice, K. Baker, N. Michaelson, and S. Li. 1995. Access to books: Variations in schools and classrooms. The Language and Literacy Spectrum 5: 23–25.
- Anderson, R., P. Wilson, and L. Fielding. 1988. Growth in reading and how children spend their time outside of school. *Reading Research Quarterly* 23: 285–303.
- Applebee, A. 1978. Teaching high-achievement students: A survey of the winners of the 1977 NCTE Achievement Awards in writing. Research in the Teaching of English 1: 41–53.
- ——. 1984. Writing and reasoning. Review of Educational Research 54: 577–596.
- Applebee, A., J. Langer, and I. Mullis. 1986. The writing report card. Princeton, N.J.: Educational Testing Service.
- Applebee, A., J. Langer, I. Mullis, L. Jenkins, and M. Foertsch. 1990. Learning to write in our nation's schools: Instruction and achievement in 1988 at grades 4, 8, and 12. Princeton, N.J.: Educational Testing Service.
- Appleby, B., and J. Conner. 1965. Well, what did you think of it? *English Journal* 54: 606–612.
- Aranha, M. 1985. Sustained silent reading goes east. Reading Teacher 39: 214–217.

i

- Aranow, M. 1961. A study of the effect of individualized reading on children's reading test scores. *Reading Teacher* 15: 86–91.
- Arlin, M., and G. Roth. 1978. Pupil's use of time while reading comics and books. *American Educational Research Journal* 5: 201–216.
- Arnold, L. 1964. Writer's cramp and eyestrain—are they paying off? *English Journal* 53: 10–15.
- Asimov, I. 2002. It's been a good life. New York: Prometheus Books.
- Bader, L., J. Veatch, and J. Eldridge. 1987. Trade books or basal readers? Reading Improvement 24: 62–67.
- Bailey, A. 1969. How parents feel about individualized reading. In Individualized reading: Readings, ed. S. Duker. Metuchen, N.J.: Scarecrow, pp. 325–330.
- Bailyn, L. 1959. Mass media and children: A study of exposure habits and cognitive effects. *Psychological Monographs* 73: 201–216.
- Baughman, J. 2000. School libraries and MCAS scores. Available: http://artemissimmons.edu/~baughman/mcas-school-libraries.
- Beck, I., M. McKeown, and E. McCaslin. 1983. Vocabulary development: Not all contexts are created equal. Elementary School Journal 83: 177–181.
- Beentjes, J., and T. Van der Voort. 1988. Television's impact on children's reading skills: A review of the research. Psychological Monographs 73: 201–216.
- Biber, D. 1986. Spoken and written textual dimensions in English. *Language* 62: 384-414.
- Bintz, W. 1993. Resistant readers in secondary education: Some insights and implications. *Journal of Reading* 36(8): 604–615.
- Blakely, W. 1958. A study of seventh grade children's reading of comic books as related to certain other variables. *Journal of Genetic Psychology* 93: 291–301.
 Blok, H. 1999. Reading to young children in educational settings: A
- Blok, H. 1999. Reading to young children in educational settings: meta-analysis of recent research. *Language Learning* 49 (2): 343–371.
- Blosser, B. 1988. Television, reading and oral language development: The case of the Hispanic child. NABE Journal 13: 21–42.

- Bohnhorst, B., and S. Sellars. 1959. Individual reading instruction vs. basal textbook instruction: Some tentative explorations. Elementary English 36: 185–202.
- Boice, R. 1983. Contingency management in writing and the appearance of creative ideas: Implications for the treatment of writing blocks. Behavioral Research Therapy 21 (5): 537–43.
- —. 1994. How writers journey to comfort and fluency. Westport, Conn.: Praeger.
- Brandenburg, G. 1919. Some possibly secondary factors in spelling ability. School and Society 9: 632–636.
- Brassell, D. 2003. Sixteen books went home tonight: Fifteen were introduced by the teacher. *The California Reader* 36 (3): 33–39.
- Brazerman, C. 1985. Physicists reading physics: Schema-laden purposes and purpose-laden schema. Written Communication 2: 3-43.
- Brocka, B. 1979. Comic books: In case you haven't noticed, they've changed.

 Media and Methods 15: 30–32.
- Brown, J., J. Cramond, and R. Wilde. 1974. Displacement effects of television and the child's functional orientation to media. In *Children's understand*ing of television, ed. J. Bryant and D. Anderson. New York: Academic Press, pp. 1–33.
- Burger, S. 1989. Content-based ESL in a sheltered psychology course: Input, output, and outcomes. TESL Canada 6: 45–59.
- Burley, J. 1980. Short-term, high intensity reading practice methods for upward bound students: An appraisal. Negro Educational Review 31(3-4): 156-161.
- Burton, S., J. Calonico, and D. McSeveney. 1979. Effects of preschool television watching on first-grade children. *Journal of Communication* 29(3): 164–170.
- Bus, A., M. Van Ijzendoorn, and A. Pellegrini. 1995. Joint book reading makes for success in learning to read: A meta-analysis on intergenerational transmission of literacy. Review of Educational Research 65: 1–21.
- Busch, J. 1978. Television's effects on reading: A case study. Phi Beta Kappan 59: 668–671.

- Business Week Online. 2002. Comics clamber back from the brink. Available http://businessweek.com/bwdaily/dnflash/aug2002/nf20020829_2344.htm.
- Bustead, A. 1943. Finding the best method for memorizing. *The Journal of Educational Psychology* 34: 110–114.
- Camiciottoli, B. C. 2001. Extensive reading in English: Habits and attitudes of a group of Italian university students. *Journal of Research in Reading* 24(2): 135–153.
- Campbell, C., D. Griswald, and F. H. Smith. 1988. Effects of tradebook covers (hardback or paperback) on individualized reading choices by elementary-age children. *Reading Improvement* 25: 166–178.
- Campbell, D., and J. Stanley. 1966. Experimental and quasi-experimental designs for research. Chicago: Rand McNally.
- Carlsen, G. R., and A. Sherrill. 1988. Voices of readers: How we come to love books. Urbana, Ill.: NCTE.
- Carson, B. 1990. Gifted hands. Grand Rapids, Mich.: Zondervan Books.
- Carter, C. 1988. Does your child love to read? Parade Magazine, April 3.
- Cho, G., and S. Krashen. 2000. The role of voluntary factors in heritage language development: How speakers can develop the heritage language on their own. ITL: Review of Applied Linguistics 127–128: 127–140.
- Cho, K. S., and S. Krashen. 1994. Acquisition of vocabulary from the Sweet Valley High Kids series: Adult ESL acquisition. *Journal of Reading* 37: 662–667.

- ———. 2002. Sustained silent reading experiences among Korean teachers of English as a foreign language: The effect of a single exposure to interesting, comprehensible reading. *Reading Improvement* 38(4): 170–174.
- Chomsky, N. 1965. Aspects of the theory of syntax. Cambridge, Mass.: MII Press.

- Cipielewski, J., and K. Stanovich. 1990. Assessing print exposure and orthographic processing skill in children: a quick measure of reading experience. Journal of Educational Psychology 82: 733–740.
- Cleary, F. 1939. Why children read. Wilson Library Bulletin 14: 119-126.
- Cline, R., and G. Kretke. 1980. An evaluation of long-term SSR in the junior high school. *Journal of Reading* (March): 503–506.
- Cline, Z., and J. Necochea. 2003. My mother never read to me. *Journal of Adolescent and Adult Literacy* 47 (2): 122–126.
- Cocks, J. 1988. The passing of Pow! and Blam! Comics grow up, get ambitious, and turn into graphic novels. Time Magazine, January 25.
- Coffin, T. 1948. Television's effect on leisure-time activities. *Journal of Applied Psychology* 32: 550–558.
- Cohen, K. 1999. Reluctant eighth grade readers enjoy sustained silent reading. California Reader 33(1): 22–25.
- Cohen, Y. 1997. How reading got me into trouble. Class paper, Trenton State University, Summer.
- Coles, G. 2003. Reading the naked truth: Literacy, legislation, and lies Portsmouth, N.H.: Heinemann.
- Collins, C. 1980. Sustained silent reading periods: Effects of teachers' behaviors and students' achievements. *Elementary School Journal* 81: 109–114.
- Comstock, G., and H. Paik. 1991. Television and the American child. New York: Academic Press.Constantino, R. 1994. Immigrant ESL high school students' understanding
- ----. Minority use of the library. California Reader 28: 10-12.

and use of the school and public library. SCOPE Journal 93: 6-18.

- Constantino, R., S. Y. Lee, K. S. Cho, and S. Krashen. 1997. Free voluntary reading as a predictor of TOEFL scores. *Applied Language Learning* 8: 111–118.
- Cook, W. 1912. Shall we teach spelling by rule? Journal of Educational Psychology 3: 316-325.
- Comman, O. 1902. Spelling in the elementary school. Boston: Ginn.

.

- Corteen, R., and T. Williams. 1986. Television and reading skills. In *The impact of television*, ed. T. M. Williams. New York: Academic Press, pp. 39–86.
- Csikszentmihalyi, M. 1991. Flow: The psychology of optimal experience. New York: HarperPerennial.
- Cummins, J. 1981. The role of primary language development in promoting educational success for language minority students. In Schooling and language minority students. Sacramento: California Department of Education, pp. 3–49.
- ——. 1996. Negotiating identities: Education for empowerment in a diverse society. Los Angeles: California Association for Bilingual Education.
- Cunningham, A., and K. Stanovich. 1990. Assessing print exposure and orthographic processing skill in children: A quick measure of reading experience. *Journal of Educational Psychology* 82: 733–740.
- Curtiss, H., and E. Dolch. 1939. Do spelling books teach spelling? *Elementary School Journal* 39: 584–592.
- Cyrog, F. 1962. Self-selection in reading: Report of a longitudinal study. In Claremont reading conference: 26th yearbook, ed. M. Douglas. Claremont, Calif.: Claremont Graduate School, pp. 106–113.
- Daly, J., and D. Wilson. 1983. Writing apprehension, self-esteem, and personality. Research in the Teaching of English 17: 327–341.
- Davis, F., and J. Lucas. 1971. An experiment in individualized reading. Reading Teacher 24: 737–743, 747.
- Davis, Z. 1998. A comparison of the effectiveness of sustained silent reading and directed reading activity on students' reading achievement. The High School Journal 72(1): 46–48.
- Day, R., C. Omura, and M. Hiramatsu. 1991. Incidental EFL vocabulary learning and reading. *Reading in a Foreign Language* 7(2): 541–551.
- Degrotsky, D. 1981. Television viewing and reading achievement of seventh and eighth graders. ERIC Document No. ED 215 291.
- Denton, K., and J. West. 2002. Children's reading and mathematics achievement in kindergarten and first grade. Washington, D.C.: National Center for Educational Statistics.

- Di Loreto, C., and L. Tse. 1999. Seeing is believing: Disparity in books in two Los Angeles area public libraries. *School Library Quarterly* 17(3): 31–36.
- Dirda, M. 2003. An open book. New York: Norton.
- Doig, D., and A. Blackmore. 1995. Leisure reading: Attitudes and practices of Australian year 6 children. Australian Journal of Language and Literacy 18(3): 204–217.
- Dorrell, L., and E. Carroll. 1981. Spider-Man at the library. School Library Journal 27: 17–19.
- Dressell, P., J. Schmid, and G. Kincaid. 1952. The effects of writing frequency upon essay-type writing proficiency at the college level. *Journal of Educational Research* 46: 285–293.
- Duggins, J. 1976. The elementary self-contained classroom. In The new hooked on books, ed. D. Fader. New York: Berkeley Books, pp. 181–190.
- Duin, J. 2002. Comics still flying high. The Washington Times, February 6.
- Duke, N. 2000. For the rich it's richer: Print experiences and environments offered to children in very low- and very high-socioeconomic status first-grade classrooms. American Educational Research Journal 37(2): 441–478.
- Dulay, H., and M. Burt. 1977. Remarks on creativity in second language acquisition. In Viewpoints on English as a second language, ed. M. Burt, H. Dulay, and M. Finnocchiaro. New York: Regents, pp. 95–126.
- Dulay, H., M. Burt, and S. Krashen. 1982. Language two. New York: Oxford University Press.
- Dupuy, B. 1997. Voices from the classroom: Students favor extensive reading over grammar instruction and practice, and give their reasons. *Applied Language Learning* 8(2): 253–261.
- 1998. Cercles de lecture: Une autre approche de la lecture dans la classe intermédiaire de français langue étrangrèe. The Canadian Modern Language Review 54 (4): 579–585.
- Dupuy, B., and S. Krashen. 1993. Incidental vocabulary acquisition in French as a foreign language. *Applied Language Learning* 4 (1, 2): 55–63.
- Elbow, P. 1973. Writing without teachers. New York: Oxford University Press.

References

- Eller, R., C. Pappas, and E. Brown. 1988. The lexical development of kinder-gartners: Learning from written context. *Journal of Reading Behavior* 20: 5-24.
- Elley, W. 1984. Exploring the reading difficulties of second language learners in Fiji. In *Reading in a second language*, ed. J. C. Alderson and A. Urquart, New York: Longman, pp. 281–301.
- ———. 1989. Vocabulary acquisition from listening to stories. Reading Research Quarterly 24: 174–187.
- ——. 1991. Acquiring literacy in a second language: The effect of book-based programs. Language Learning 41: 375–411.
- ——. 1992. How in the world do students read? Hamburg: The International Association for the Evaluation of Educational Achievement.
- . 1994. IEA study of reading literacy. Amsterdam: Elsevier Science.
- Elley, W., I. Barham, H. Lamb, and M. Wyllie. 1976. The role of grammar in a secondary school curriculum. Research in the Teaching of English 10:5–21.
- Elley, W., and F. Mangubhai. 1983. The impact of reading on second language learning. Reading Research Quarterly 19: 53-67.
- El-Shabbaz, E. 1964. The autobiography of Malcolm X. New York: Ballantine.
- Emery, C., and M. Csikszentmihalyi. 1982. The socialization effects of cultural role models in ontogenetic development and upward mobility. *Child Psychiatry and Human Development* 12: 3–19.
- Evans, H., and J. Towner. 1975. Sustained silent reading: Does it increase skills? *Reading Teacher* 29: 155–156.
- Evans, P., and N. Gleadow. 1983. Literacy: A study of literacy performance and leisure activities in Victoria, BC. Reading Canada Lecture 2: 3–16.
- Facemire, N. 2000. The effect of the accelerated reader on the reading comprehension of third graders. ERIC Document No. ED 442 097
- Fader, D. 1976. The new hooked on books. New York: Berkeley Books

Keferences

- Fadiman, C. 1947. Party of one: The selected writings of Clifton Fadiman. Cleveland: World Publishing.
- Fairbank, Maslin, Maullin and Associates. 1999. California Statewide Poll, Job # 620–157. Santa Monica, Calif.: California Opinion Research.
- Farrell, E. 1982. SSR as the core of junior high school reading program. *The Reading Teacher* 36: 48–51.
- Fasick, A. 1973. Television language and book language. Elementary English 50: 125–131.
- Feitelson, D., B. Kita, and A. Goldstein, 1986. Effects of listening to series stories on first graders' comprehension and use of language. Research in the Teaching of English 20: 339–355.
- Filback, R., and S. Krashen. 2002. The impact of reading the bible and studying the bible on biblical knowledge. *Knowledge Quest* 31(2): 50–51.
- Finegan, E. 1999. *Language: Its structure and use.* 3d ed. New York: Harcourt Brace.
- Flurkey, A., and J. Xu, eds. 2003. On the revolution in reading: The selected writings of Kenneth S. Goodman. Portsmouth, N.H.: Heinemann.
- Foertsch, M. 1992. Reading in and out of school. Washington, D.C.: U.S. Department of Education.
- Frebody, P., and R. Anderson. 1983. Effects of text comprehension of differing proportions and locations of difficult vocabulary. *Journal of Reading Behavior* 15: 19–39.
- Gadberry, S. 1980. Effects of restricting first graders' TV-viewing on leisure time use, IQ change, and cognitive style. Journal of Applied Developmental Psychology 1: 45–57.
- Gallup. 2002. Does reading still stack up? Gallup Poll News Service, September 3. Available: 2002. http://www.gallup.com.
- Ganguli, A. 1989. Integrating writing in developmental mathematics. *College Teaching* 37: 140–142.
- Garan, E. 2002. Resisting reading mandates. Portsmouth, N.H.: Heinemann.
- Gaver, M. 1963. Effectiveness of centralized library service in elementary schools New Brunswick, N.J.: Rutgers University Press.

Kejerences

- Gilbert, L. 1934a. Effect of spelling on reading in the ninth grade. School Review 42: 197–204.
- ——. 1934b. Effect of reading on spelling in the secondary schools. California Quarterly of Secondary Education 9: 269–275.
- —. 1935. Study of the effect of reading on spelling. Journal of Educational Research 28: 570–586.
- Goertzel, M., V. Goertzel, and T. Goertzel, T. 1978. Three hundred eminent personalities. San Francisco: Jossey-Bass.
- Goodman, G. 1999. The Reading Renaissance/Accelerated Reader program. Pinal County school-to-work evaluation report. ERIC Document No. ED 427 299
- Goodman, K. 1982. Language, literacy, and learning. London: Routledge Kagan Paul.
- Goodman, K., and Y. Goodman. 1982. Spelling ability of a self-taught reader. In Language and literacy: The selected writings of Kenneth S. Goodman, vol. 2., ed. F. Gollasch. London: Routledge, pp. 135–142.
- Gordon, I., and C. Clark. 1961. An experiment in individualized reading. Childhood Education 38: 112–113.
- Gorman, M. 2002. Thirty graphic novels you can't live without. School Library Journal 48(8): 42–44, 47.
- Gradman, H., and E. Hanania. 1991. Language learning background factors and ESL proficiency. Modern Language Journal 75: 39-51.
- Graves, M., G. Brunett, and W. Slater. 1982. The reading vocabularies of primary grade children from varying geographic and social backgrounds. In *New Inquiries in Reading Research and Instruction*, ed. J. Niles and C. Harris. Rochester, NY: National Reading Conference, pp. 99–104.
- Gray, G. 1969. A survey of children's attitudes toward individualized reading. In *Individualized reading: Readings*, ed. S. Duker. Metuchen, N.J.: Scarecrow, pp. 330–332.
- Greaney, V. 1970. A comparison of individualized and basal reader approaches to reading instruction. *Irish Journal of Education* 1: 19-29.
- ———. 1980. Factors related to the amount and type of leisure time reading. Reading Research Quarterly 15: 337–357.

Regerences

- Greaney, V., and M. Clarke. 1973. A longitudinal study of the effects of two reading methods on leisure-time reading habits. In Reading: What of the future? ed. D. Moyle. London: United Kingdom Reading Association, pp. 107–114.
- Greaney, V., and M. Hegarty. 1987. Correlations of leisure time reading. Journal of Research in Reading 10:3–20.
- Greene, J. 1997. A meta-analysis of the Rossell and Baker review of bilingual education research. *Bilingual Research Journal* 21 (2, 3): 103–122.
- Gupta, A., and S. P. Yeok. 1995. Language shift in a Singapore family. Journal of Multilingual and Multicultural Development 16(4): 301–314.
- Hafiz, F., and I. Tudor. 1990. Graded readers as an input medium in L2 learning. System 18(1): 31–42.
- Hafner, L., B. Palmer, and S. Tullos. 1986. The differential reading interests of good and poor readers in the ninth grade. *Reading Improvement* 23: 39–42.
- Haggan, M. 1991. Spelling errors in native Arabic-speaking English majors: A comparison between remedial students and fourth year students. System 19: 45-61.
- Hammill, D., S. Larsen, and G. McNutt. 1977. The effect of spelling instruction: A preliminary study. Elementary School Journal 78: 67–72.
- Hartl, B. 2003. Comic relief: Heroic efforts keep Parts Unknown afloat. *The Business Journal of the Greater Triad Area*, March 31.
- Haugaard, K. 1973. Comic books: A conduit to culture? *Reading Teacher* 27: 54–55.
- Hayes, D., and M. Ahrens. 1988. Vocabulary simplification for children: A special case of "motherese"? *Journal of Child Language* 15: 395–410.
- Healy, A. 1963. Changing children's attitudes toward reading. *Elementary English* 40: 255–257, 279.
- Heisler, F. 1947. A comparison of comic book and non-comic book readers of the elementary school. *Journal of Educational Research* 40: 458–464.
- Herbert, S. 1987. SSR-What do students think? Journal of Reading 30(7): 651.
- Herda, R., and F. Ramos. 2001. How consistently do students read during sustained silent reading? *California School Library Journal* 24(2): 29–31.

- Herman, P., R. Anderson, P. D. Pearson, and W. Nagy. 1987. Incidental acquisition of word meanings from expositions with varied text features. *Reading Research Quarterly* 22: 263–284.
- Hermann, F. 2003. Differential effects of reading and memorization of paired associates on vocabulary acquisition in adult learners of English as a second language. TESL-EJ 7(1): A-1. Available: http://www-writing.berkeley.edu/TESOL-EJ.
- Heyns, B. 1978. Summer learning and the effects of schooling. New York: Academic Press.
- Hillocks, G., Jr. 1986. Research on written composition: New directions for teaching ED 265552. Urbana, Ill.: ERIC.
- Himmelweit, H., A. Oppenheim, and P. Vince. 1958. *Television and the child*New York: Oxford University Press.
- Holt, S., and F. O'Tuel. 1989. The effect of sustained silent reading and writing on achievement and attitudes of seventh and eighth grade students reading two years below grade level. *Reading Improvement* 26: 290–297.
- Horst, M., T. Cobb, and P. Meara. 1998. Beyond Clockwork Orange: Acquiring second language vocabulary through reading. Reading in a Foreign Language 11(2): 207-223.
- Houle, R., and C. Montmarquette. 1984. An empirical analysis of loans by school libraries. Alberta Journal of Educational Research 30: 104–114.
- Hoult, T. 1949. Comic books and juvenile delinquency. Sociology and Social Research 33: 279–284.
- Hughes, J. 1966. The myth of the spelling list. *National Elementary Principal* 46: 53–54.
- Hunting, R. 1967. Recent studies of writing frequency. Research in the Teaching of English 1: 29–40.

 Huser, M. 1967. Reading and more reading. Elementary English 44: 378–382.
- 385.
- Inge, M. T. 1985. The American comic book. Columbus: Ohio State University.
- Ingham, J. 1981. Books and reading development: The Bradford book flood experiment. London: Heinemann Educational Books.

- Ivey, G., and K. Broaddus. 2001. "Just plain reading": A survey of what makes students want to read in middle school classrooms. Reading Research Quarterly 36(4): 350–377.
- Jacoby, L., and A. Hollingshead. 1990. Reading student essays may be hazardous to your spelling: Effects of reading incorrectly and correctly spelled words. Canadian Journal of Psychology 44: 345–358.
- Janopoulos, M. 1986. The relationship of pleasure reading and second language writing proficiency. TESOL Quarterly 20: 763–768.
- Jenkins, M. 1957. Self-selection in reading. Reading Teacher 11: 84-90.
- Johnson, R. 1965. Individualized and basal primary reading programs. *Elementary English* 42: 902–904, 915.
- Einsson, A. 1986. TV: A threat or a complement to school? *Journal of Educational Television* 12(1): 29–38.
- Kaplan, J., and E. Palhinda. 1981. Non-native speakers of English and their composition abilities: A review and analysis. In *Linguistics and literacy*, ed. W. Frawley. New York: Plenum Press, pp. 425–457.
- Kim, H., and S. Krashen. 1998a. The author and magazine recognition tests as predictors of literacy development in Korean. *Perceptual and Motor Skills* 87: 1376–1378.
- ——. 1998b. The author recognition and magazine recognition tests, and free voluntary reading as predictors of vocabulary development in English as a foreign language for Korean high school students. System 26: 515–523.
- Kim, J. 2003. Summer reading and the ethnic achievement gap. Paper presented at the American Educational Research Association, Chicago, April 21.
- Kim, J., and S. Krashen, S. 2000. Another home run. California English 6(2): 25
- Kitao, K., M. Yamamoto, S. K. Kitao, and H. Shimatani. 1990. Independent reading in English—use of graded readers in the library English as a second language corner. *Reading in a Foreign Language* 6(2): 383–395.
- Konopak. B. 1988. Effects of inconsiderate vs. considerate text on secondary students' vocabulary learning. Journal of Reading Behavior 20: 25–41.

References

- Krashen, S. 1982. Principles and practice in second language acquisition. New York: Prentice Hall.
- ———. 1984. Writing: Research, theory and applications. Beverly Hills: Laredo Publishing.
- Laredo.

 1985a. The input hypothesis: Issues and implications. Beverly Hills:
- -----. 1985b. Inquiries and insights. Menlo Park: Calif.: Alemany Press.
- 1988. Do we learn to reading by reading? The relationship between free reading and reading ability. In Linguistics in context: Connecting observation and understanding, ed. D. Tannen. Norwood, N.J.: Ablex, pp. 269–298.
- ——. 1989. We acquire vocabulary and spelling by reading: Additional evidence for the Input Hypothesis. *Modern Language Journal* 73: 440–464.
- ——. 1994. The pleasure hypothesis. In Georgetown University Round Table on Languages and Linguistics, ed. J. Alatis. Washington, D.C.: Georgetown University Press, pp. 299–302.
- —. 1995. School libraries, public libraries, and the NAEP reading scores. School Library Media Quarterly 23: 235–238.
- ——. 1996. Under attack: The case against bilingual education. San Francisco: Alta Publishing.
- ——. 1998a. Why consider the library and books? In Literacy, access, and libraries among the language minority population, ed. R. Constantino. Lanham, Md.: Scarecrow, pp. 1–16.
- ——. 1998b. Language shyness and heritage language development. In Heritage language development, ed. S. Krashen, L. Tse, and J. McQuillan. Culver City, Calif.: Language Education Associates.
- ——. 1999. Three arguments against whole language and why they are wrong. Portsmouth, N.H.: Heinemann.
- ———. 2001. More smoke and mirrors: A critique of the National Reading Panel report on fluency. Phi Delta Kappan 83: 119–123.
- ——. 2002. The NRP comparison of whole language and phonics: Ignoring the crucial variable in reading. *Talking Points* 13(3): 22–28.

References

- —. 2003a. Explorations in language acquisition and use: The Taipei lectures. Portsmouth, N.H.: Heinemann.
- —. 2003b. The unbearable coolness of phonemic awareness. Language Magazine 2(8): 13–18.
- ——. 2003c. Three roles for reading. In English learners: Reaching the highest level of English literacy, ed. G. Garcia..International Reading Association.
- ——. 2003d. The (lack of) experimental evidence supporting the use of Accelerated Reader. Journal of Children's Literature 29 (2): 9, 16–30.
- Krashen, S., and H. White. 1991. Is spelling acquired or learned? A re-analysis of Rice (1897) and Comman (1902). ITL: Review of Applied Linguistics 91–92: 1–48.
- Kyte, G. 1948. When spelling has been mastered in the elementary school. Journal of Educational Research 42: 47–53.
- LaBrant, L. 1958. An evaluation of free reading. In Research in the three R's, ed. C. Hunnicutt and W. Iverson. New York: Harper, pp. 154–161.
- Lai, F. K. 1993. The effect of a summer reading course on reading and writing skills. System 21(1): 87–100.
- Lamme, L. 1976. Are reading habits and abilities related? *Reading Teacher* 30: 21–27.
- Lancaster, T. 1928. A study of the voluntary reading of pupils in grdes IV-VIII. Elementary School Journal 28: 525–537.
- Lance, K., C. Hamilton-Pennell, M. Rodney, L. Petersen, and C. Sitter, C. 1999.
 Information empowered: The school librarian as an academic achievement in Alaska schools. Juno: Alaska State Library.
- Lance, K., M. Rodney, and C. Hamilton-Pennell. 2000a. How school librariums help kids achieve standards: The second Colorado study. San Jose: Hi Willow Research and Publishing.
- ——. 2000b. Measuring to standards: The impact of school library programs and information literacy in Pennsylvania schools. Greensburg, Pa.: Pennsylvania Citizens for Better Libraries (604 Hunt Club Drive, Greensburg PA, 15601).

e. E

- . 2001. Good schools have school librarians: Oregon school librarians collaborate to improve academic achievement. Salem: Oregon Educational Media
- Lance, K., L. Welborn, and C. Hamilton-Pennell. 1993. The Impact of school library media centers on academic achievement. Castle Rock, Colo.: Hi Willow Research and Publishing.
- Langer, J., and A. Applebee. 1987. How writing shapes thinking. Urbana, Ill.:
 National Council of Teachers of English.
- Langford, J., and Allen, E. 1983. The effects of U.S.S.R. on students' attitudes and achievements. Reading Horizons 23: 194–200.
- Lao, C. Y. 2003. Prospective teachers' journey to becoming readers. New Mexico Journal of Reading 32(2): 14–20.
- Lao, C. Y., and S. Krashen. 2000. The impact of popular literature study on literacy development in EFL: More evidence for the power of reading. System 28: 261–270.
- Laufer, B. 2003. Vocabulary acquisition in a second language: Do learners really acquire most vocabulary by reading? Some empirical evidence. The Canadian Modern Language Review 59(4): 567–587.
- Lawson, H. 1968. Effects of free reading on the reading achievement of sixth grade pupils. In *Forging ahead in reading*, ed. J. A. Figurel. Newark, Del: International Reading Association, pp. 501–504.
- Lee, S. Y. 1998. Effects of introducing free reading and language acquisition theory on students' attitudes toward the English class. Studies in English Language and Literature 4: 21–28.
- -----. 2001. What makes it difficult to write. Taipei: Crane Publishing Company.
- Lee, S. Y., and S. Krashen. 1996. Free voluntary reading and writing competence in Taiwanese high school students. *Perceptual and Motor Skills* 83: 687–690.
- ———. 1997. Writing apprehension in Chinese as a first language. ITL: Review of Applied Linguistics 115–116: 27–37.
- Lee, S. Y., S. Krashen, and L. Tse. 1997. The author recognition test and vocabulary knowledge: A replication. *Perceptual and Motor Skills* 83: 648–650.

kejerences

- Lee, Y. O., S. Krashen, and B. Gribbons. 1996 The effect of reading on the acquisition of English relative clauses. ITL: Review of Applied Linguistics 113–114: 263–273.
- LeMoine, N., B. Brandlin, B. O'Brian, and J. McQuillan. 1997. The (print)-rich get richer: Library access in low- and high-achieving elementary schools. The California Reader 30: 23–25.
- Leonhardt, M. 1998. How to sweeten your school's climate for reading. School Library Journal 44(11): 28–31.
- Leung, C., and J. Pikulski. 1990. Incidental learning of word meanings by kindergarten and first-grade children through repeated read aloud events. In Literacy theory and research: Analysis from multiple paradigms, ed. J. Zutell and S. McCormick. Chicago: National Reading Conference, pp. 281–301.
- Liberman, M. 1979. The verbal language of television. *Journal of Reading* 26: 602–609.
- Lituanas, P., G. Jacobs, and W. Renandya. 1999. A study of extensive reading with remedial reading students. In *Language instructional issues in Asian classrooms*, ed. Y. M. Cheah and S. M. Ng. Newark, N.J.: International Reading Association, pp. 89–104.
- Lokke, V., and G. Wykoff. 1948. "Double writing" in freshman composition—an experiment. School and Society 68: 437–439.
- Lomax, C. 1976. Interest in books and stories at nursery school. Educational Research 19: 110–112.
- Lorge, I., and J. Chall. 1963. Estimating the size of vocabularies of children and adults: An analysis of methodological issues. *Journal of Experimental Education* 32: 147–157.
- Lowrey, L., and W. Grafft. 1965. Paperback books and reading attitudes. Reading Teacher 21: 618–623.
- Lyness, P. 1952. The place of the mass media in the lives of boys and girls. Journalism Quarterly 29: 43–54.
- Maccoby, E. 1951. Television: Its impact on school children. Public Opinion Quarterly 15: 421–444.

...

- MacDonald, H. 2003. Manga sales just keep rising. Publishers Weekly, March 17.
- Manning, G., and M. Manning. 1984. What models of recreational reading make a difference? Reading World 23: 375–380.
- Marshall, J. 1987. The effects of writing on students' understanding of literary texts. Research in the Teaching of English 21: 30–63.
- Martinez, M., N. Roser, J. Worthy, S. Strecker, and P. Gough. 1997. Classroom libraries and children's book selections: Redefining "access" in self-selected reading. In *Inquires in literacy: Theory and practice*. Forty-sixth year-book of The National Reading Conference, ed. C. Kinzer, K. Hinchman, and D. Leu. Chicago: National Reading Conference, pp. 265–272.
- Mason, B. 2003. Evidence for the sufficiency of extensive reading on the development of grammatical accuracy. Doctoral dissertation, Temple University, Osaka, Japan.
- Mason, B., and S. Krashen. 1997. Extensive reading in English as a foreign language. System 25: 91–102.
- Mason, G., and W. Blanton. 1971. Story content for beginning reading instruction. Elementary English 48: 793–796.
- Massimini, F., M. Csikszentmihalyi, and A. Della Fave. 1992. Flow and biocultural evolution. In Optimal experience: Psychological studies of flow in consciousness, ed. M. Csikszentmihalyi and I. Csikszentmihalyi. Cambridge: Cambridge University Press, pp. 60–81.
- Mathabane, M. 1986. Kaffir boy. New York: Plume.
- Mathis, D. 1996. The effect of the Accelerated Reader program on reading comprehension. ERIC Document No. ED 398 555.
- Maynes, F. 1981. Uninterrupted sustained silent reading. Reading Research Quarterly 17: 159–160.
- McCracken, R., and M. McCracken. 1978. Modeling is the key to sustained silent reading. *Reading Teacher* 31: 406–408.
- McDonald, M., J. Harris, and J. Mann. 1966. Individual versus group instruction in first grade reading. *Reading Teacher* 19: 643–646, 652.

- McEvoy, G., and C. Vincent. 1980. Who reads and why? Journal of Communication 30: 134–140.
- McKenna, M., D. Kear, and R. Ellsworth. 1991. Developmental trends in children's use of print media: A national study. In Learner factors/teacher factors: Issues in literacy research and instruction, ed. J. Zutell and S. McCormick. Chicago: National Reading Conference, pp. 319–324.
- McLoyd, V. 1979. The effects of extrinsic rewards of differential value on high and low intrinsic interest. Child Development 10: 1010–1019.
- McQuillan, J. 1994. Reading versus grammar: What students think is pleasurable for language acquisition. Applied Language Learning 5: 95–100.
- -----. 1996. How should heritage languages be taught? The effects of a free voluntary reading program. Foreign Language Annals 29(1): 56–72.
- —. 1997. The effects of incentives on reading. Reading Research and Instruction 36: 111–125.
- ——. 1998b. The use of self-selected and free voluntary reading in heritage language programs: A review of research. In *Heritage language development*, ed. S. Krashen, L. Tse, and J. McQuillan. Culver City, Calif.: Language Education Associates, pp. 73–87.
- McQuillan, J., and J. Au. 2001. The effect of print access on reading frequency Reading Psychology 22: 225–248.
- McQuillan, J., and V. Rodrigo. 1998. Literature-based programs for first language development: Giving native bilinguals access to books. In *Literacy*, Access, and Libraries Among the Language Minority Population, ed. R. Constantino. Lanham, Md.: Scarecrow, pp. 209–224.
- Medrich, E., A. Roizen, V. Rubin, and S. Buckley. 1982. The serious business of growing up: A study of children's lives outside school. Los Angeles: University of California Press.
- Mellon, C. 1987. Teenagers do read: What rural youth say about leisure reading. School Library Journal 38(8): 27–30.
- Miller, F. 1986. The Dark Knight returns. New York: DC Comics.

- Miller, G. 1977. Spontaneous apprentices: Children and language. New York: Seabury.
- Miller, M., and M. Shontz. 2001. New money, old books. School Library Journal 47(10): 5–60.
- Minton, M. 1980. The effect of sustained silent reading upon comprehension and attitudes among ninth graders. *Journal of Reading* 23: 498–502.
- Monteith, M. 1980. How well does the average American read? Some facts, figures and opinions. *Journal of Reading* 20: 460–464.
- Moore, A. 1986. Watchmen. New York: DC Comics.
- Morrow, L. 1982. Relationships between literature programs, library corner designs, and children's use of literature. *Journal of Educational Research* 75: 339–344.
- ——. 1983. Home and school correlates of early interest in literature. Journal of Educational Research 75: 339–344.
- Morrow, L., and C. Weinstein. 1982. Increasing children's use of literature through program and physical changes. Elementary School Journal 83: 131–137.
- Munoz, H. 2003. First Lady delivers \$5,000 and a passion for reading. Education Week, May 21.
- Murray, J., and S. Kippax. 1978. Children's social behavior in three towns with differing television experience. *Reading Teacher* 28: 19–29.
- Nagy, W., R. Anderson, and P. Herman. 1987. Learning word meanings from context during normal reading. *American Educational Research Journal* 24: 237–270.
- Nagy, W., and P. Herman. 1987. Breadth and depth of vocabulary knowledge. Implications for acquisition and instruction. In *The nature of vocabulary acquisition*, ed. M. McKeown and M. Curtiss. Hillsdale, N.J.: Erbaum, pp. 19–35.
- Nagy, W., P. Herman, and R. Anderson. 1985. Learning words from context. Reading Research Quarterly 23: 6–50.
- National Council on Writing. 2003. The neglected "R": The need for a writing revolution. New York: College Entrance Examination Board.

National Institute of Child Health and Human Development (NICHD). 2000. Report of the National Reading Panel. Teaching children to read. [NIH Publication no. 00-4754]. Washington, DC: Government Printing Office.

NCES, 2000. A study of the differences between higher- and lower-performing Indiana schools in reading and mathematics. Oak Brook, Ill.: North Central Regional Educational Laboratory.

Nell, V. 1988. Lost in a book. New Haven, Conn.: Yale University Press.

Neuman, S. 1986. The home environment and fifth-grade students' leisure reading. Elementary School Journal 86: 335–343.

—. 1988. The displacement effect: Assessing the relation between television viewing and reading performance. Reading Research Quarterly 23: 414-440.

—. 1995. Literacy in the television age: The myth of the TV effect. 2d ed. Norwood, N.J.: Ablex.

Neuman, S., and D. Celano. 2001. Access to print in low-income and middle-income communities. *Reading Research Quarterly* 36(1): 8–26.

Newell, G. 1984. Learning while writing in two content areas: A case study/protocol analysis. Research in the Teaching of English 18: 265–287.

Newell, G., and P. Winograd. 1989. The effects of writing on learning from expository text. Written Communication 6: 196–217.

Nisbet, S. 1941. The scientific investigation of spelling instruction: Two preliminary investigations. *British Journal of Educational Psychology* 11: 150.

Norton, B. 2003. The motivating power of comic books: Insights from Archie comic book readers. *The Reading Teacher* 57(2): 140–147.

O'Brian, I. 1931. A comparison of the use of intensive training and wide reading in the improvement of reading. Educational Method 10: 346-349.

Oliver, M. 1973. The effect of high intensity practice on reading comprehension. Reading Improvement 10: 16–18.

———. 1976. The effect of high intensity practice on reading achievement. Reading Improvement 13: 226–228.

Oller, D. K, and R. Eilers. 2002. Language and literacy in bilingual children. Clevedon, England: Multilingual Matters.

177

Kejerences

- Ormrod, J. 1986. Learning to spell while reading: A follow-up study. *Perceptual and Motor Skills* 63: 652–654.
- Pack, S. 2000. Public library use, school performance, and the parental X-factor: A bio-documentary approach to children's snapshots. Reading Improvement 37: 161–172.
- Parrish, B. 1983. Put a little romance into your reading program. *Journal of Reading* 26: 610–615.
- Parrish, B., and K. Atwood. 1985. Enticing readers: The teen romance craze. California Reader 18: 22–27.
- Pavonetti, L., K. Brimmer, and J. Cipielewski, J. 2003. Accelerated reader. What are the lasting effects on the reading habits of middle school students exposed to Accelerated Reader in elementary grades? Journal of Adolescent and Adult Literacy 46(4): 300–311.
- Petre, B. 1971. Reading breaks make it in Maryland. *The Reading Teacher* 15: 191–194.
- Pfau, D. 1967. Effects of planned recreational reading programs. Reading Teacher 21: 34–39.
- Pilgreen, J. 2000. The SSR handbook: How to organize and maintain a sustained silent reading program. Portsmouth, N.H.: Heinemann.
- Pilgreen, J., and S. Krashen. 1993. Sustained silent reading with high school ESL students: Impact on reading comprehension, reading frequency, and reading enjoyment. School Library Media Quarterly 22: 21–23.
- Pitts, M., H. White, and S. Krashen. 1989. Acquiring second language vocabulary through reading: A replication of the Clockwork Orange study using second language acquirers. Reading in a Foreign Language 5: 271–275.
- Pitts, S. 1986. Read aloud to adult learners? Of course! Reading Psychology 7: 35–42.
- Polak, J., and S. Krashen. 1988. Do we need to teach spelling? The relationship between spelling and voluntary reading among community college ESL students. TESOL Quarterly 22: 141–146.
- Postman, N. 1983. The disappearing child. Educational Leadership 40: 10-17.

References

- Postlethwaite, T., and K. N. Ross. 1992. Effective schools in reading: Implications for educational planners. An exploratory study. The Hague: The International Association for the Evaluation of Educational Achievement.
- Potter, W. 1987. Does television viewing hinder academic achievement among adolescents? *Humun Communications Research* 14: 27–46.
- Pucci, S. 1994. Supporting Spanish language literacy: Latino children and free reading resources in the schools. *Bilingual Research Journal* 18: 67–82.
- Pucci, S., and S. Ulanoff. 1996. Where are the books? The CATESOL Journal 9(2): 111–116.
- Pulido, D. 2003. Modeling the role of second language proficiency and topic familiarity in second language incidental vocabulary acquisition through reading. *Language Learning* 53(2): 233–284.
- Ramirez, D., S. Yuen, D. Ramey, and D. Pasta. 1991. Final report: Longitudinal study of structured English immersion strategy, early-exit and late-exit bilingual education programs for language minority students, Vol. I. San Mateo, Calif.: Aguirre International.
- Ramos, F., and S. Krashen. 1998. The impact of one trip to the public library: Making books available may be the best incentive for reading. *The Read-ing Teacher* 51(7): 614–615.
- Ravitch, D., and C. Finn. 1987. What do our 17-year-olds know? New York: Harper & Row.
- Reed, C. 1985. Reading adolescents: The young adult book and the school. New York: Holt Rinehart Winston.
- Rehder, L. 1980. Reading skills in a paperback classroom. *Reading Horizons* 21: 16–21.
- Renaissance Reader, Report 36: Maine middle school achieves academic success with Renaissance comprehensive schoolwide program. Available: www.renlearn.com.
- Renandya, W., B. R. S. Rajan, and G. Jacobs. 1999. ER with adult learns of English as a second language. *RELC Journal* 30(1): 39–61.
- Reutzel, R., and P. Hollingsworth. 1991. Reading comprehension skills: Testing the distinctiveness hypothesis. Reading Research and Instruction 30: 32–46.

Kejerences

- Rice, E. 1986. The everyday activities of adults: Implications for prose recall—Part I. Educational Gerontology 12: 173–186.
- Rice, J. 1897. The futility of the spelling grind. Forum 23: 163-172, 409-419.
- Rice, M., and P. Haight. 1986. "Motherese" of Mr. Rogers: A description of the dialogue of educational television programs. *Journal of Speech and Hear*ing Disorders 51: 282–287.
- Richard, A. 2003. GAO says costs for state tests all in how questions asked. *Education Week*, May 21.
- Richards, A. 1920. Spelling and the individual system. School and Society 10: 647–650.
- Roberts, D., C. Bachen, M. Hornby, and P. Hernandez-Ramos. 1984. Reading and television: Predictors of reading achievement at different age levels. *Communication Research* 11(1): 9–49.
- Robinson, J. 1972. Television's impact on everyday life: Some cross-national evidence. In *Television and social behavior, vol. 4,* ed. E. Rubinstein, G. Comstock, and J. Murray. Rockwell, Md.: National Institute of Mental Health, pp. 410–431.
- Robinson, J., and G. Godbey. 1997. Time for life: The surprising way Americans use their time. University Park: University of Pennsylvania Press.
- Rodney, M., K. Lance, and C. Hamilton-Pennell, 2002. Make the connection: Quality school library media programs impact academic achievement in Iowa. Betterndorf, Iowa: Mississippi Bend Area Educational Agency.
- Rodrigo, V. 1997. Son concientes los estudiantes de Espagnol intermedio de los beneficios que les brinda la lectura? *Hispania* 80: 255–264.
- Rodrigo, V., J. McQuillan, and S. Krashen. 1996. Free voluntary reading and vocabulary knowledge in native speakers of Spanish. *Perceptual and Motor Skills* 83: 648–650.
- Rosenthal, N. 1995. Speaking of reading. Portsmouth, N.H.: Heinemann.
- Ross, P. 1978. Getting books into those empty hands. Reading Teacher 31: 397–399.

180

Kejerence

- Rucker, B. 1982. Magazines and teenage reading skills: Two controlled field experiments. *Journalism Quarterly* 59: 28–33.
- Sadowski, M. 1980. An attitude survey for sustained silent reading programs. Journal of Reading 23: 721–726.
- Salyer, M. 1987. A comparison of the learning characteristics of good and poor ESL writers. Applied Linguistics Interest Section Newsletter, TESOL 8: 2-3.
- San Diego County. 1965. A plan for research. In Individualized reading: Readings, ed. S. Duker. Metuchen, N.J.: Scarecrow, pp. 359–363.
- Saragi, Y., P. Nation, and G. Meister. 1978. Vocabulary learning and reading. System 6: 70–78.
- Sartain, H. 1960. The Roseville experiment with individualized reading. Reading Teacher 12: 277–281.
- Sato, I. 1992. Bosozuku: Flow in Japanese motorcycle gangs. In Optimal experience: Psychological studies of flow in consciousness. ed. M. Csikszentmihalyi and I. Csikszentmihalyi. Cambridge: Cambridge University Press, pp. 92–117.
- Schafer, C., and A. Anastasi. 1968. A biographical inventory for identifying creativity in adolescent boys. *Journal of Applied Psychology* 58: 42–48.
- Schatz, E., and R. Baldwin. 1986. Context clues are unreliable predictors of word meanings. *Reading Research Quarterly* 20: 439–453.
- Schon, I., K. Hopkins, and C. Vojir. 1984. The effects of Spanish reading emphasis on the English and Spanish reading abilities of Hispanic high school students. *Bilingual Review* 11: 33–39.
- —. 1985. The effects of special reading time in Spanish on the reading abilities and attitudes of Hispanic junior high school students. *Journal of Psycholinguistic Research* 14: 57–65.
- Schoolboys of Barbiana. 1970. Letter to a teacher. New York: Vintage Books.
- Schoonover, R. 1938. The case for voluminous reading. *English Journal* 27: 114–118
- Schramm, W., J. Lyle, and E. Parker. 1961. Television in the lives of our children. Stanford, Calif.: Stanford University Press.

e e

- Seashore, R., and L. Eckerson. 1940. The measurement of individual differences in general English vocabularies. *Journal of Educational Psychology* 31: 14–31.
- Segal, J. 1997. Summer daze. Class paper, Trenton State University, Summer.
- Senechal, M., J. LeFebre, E. Hudson, and E. Lawson. 1996. Knowledge of storybooks as a predictor of young children's vocabulary. Journal of Educational Psychology 88(1): 520–536.
- Shanahan, T. 2000. Reading Panel: A member responds to a critic. Education Week, May 31, 39.
- Shin, F. 1998. Implementing free voluntary reading with ESL middle school students—improvement in attitudes toward reading and test scores. In Literacy, access, and libraries among the language minority population, ed. R. Constantino. Lanham, Md.: Scarecrow, pp. 225–234.
- ——. 2001. Motivating students with Goosebumps and other popular books. CSLA Journal (California School Library Association) 25(1): 15–19.
- -------. 2003. Should we just tell them to read? The role of direct encouragement in promoting recreational reading. *Knowledge Quest* 32(3): 49–50.
- Shooter, J. 1986. Marvel and me. In *The comic book price guide*, ed. R. Overstreet. New York: Harmony Books, pp. A85–96.
- Simonton, D. 1984. Genius, creativity, and leadership. Cambridge, Mass.: Harvard University Press.
- ——. 1988. Scientific genius: A psychology of science. Cambridge, Mass.: Harvard University Press.
- Slover, V. 1959. Comic books vs. story books. Elementary English 36: 319-322.
- SmartGirl Internette, Inc. 1999. Teen Read Week Report, November
- Smith, C., R. Constantino, and S. Krashen. 1996. Differences in print environment for children in Beverly Hills, Compton and Watts. *Emergency Librarian* 24(4): 4–5.
- Smith, E. 2001. Texas school libraries: Standards, resources, services and students' performance. Austin: Texas State Libraries and Archives Commission.
- Smith, F. 1988. Joining the literacy club. Portsmouth, N.H.: Heinemann.

- —. 1994a. Writing and the writer. 2d ed. Hillsdale, N.J.: Erlbaum.
- —. 1994b. Understanding reading. 5th ed. Hillsdale, N.J.: Erlbaum.
- Smith, M. 1941. Measurement of the size of general English vocabulary through the elementary grades and high school. Genetic Psychology Monographs 24: 311–345.
- Smith, R., and G. Supanich. 1984. The vocabulary scores of company presidents. Chicago: Johnson O'Conner Research Foundation Technical Report 1984–1.
- Snow, C., W. Barnes, J. Chandler, I. Goodman, and H. Hemphill. 1991. *Unfulfilled expectations: Home and school influences on literacy*. Cambridge, Mass.: Harvard University Press.
- Sommers, N. 1980. Revision strategies of student writers and experienced adult writers. College Composition and Communication 31: 378–388.
- Southgate, V., H. Arnold, and S. Johnson. 1981. Extending beginning reading. London: Heinemann Educational Books.
- Sperzl, E. 1948. The effect of comic books on vocabulary growth and reading comprehension. *Elementary English* 25: 109–113.
- Stahl, S., M. Richek., and R. Vandevier. 1991. Learning meaning vocabulary through listering: A sixth-grade replication. In Learner factors/teacher factors: Issues in literacy research and instruction, ed. J. Zutell and S. McCormick. Chicago: National Reading Conference, pp. 185–192.
- Stanovich, K., and A. Cunningham. 1992. Studying the consequences of literacy within a literate society: the cognitive correlates of print exposure. *Memory and Cognition* 20(1): 51–68.
- ——. 1993. Where does knowledge come from? Specific associations between print exposure and information acquisition. *Journal of Educational Psychology* 85(2): 211–229.
- Stanovich, K., and R. West. 1989. Exposure to print and orthographic processing. Reading Research Quarterly 24: 402–433.
- Stanovich, K., R. West, and M. Harrison. 1995. Knowledge growth and maintenance across the life span: The role of print exposure. Developmental Psychology 31(5): 811–826.

References

- Stedman, L., and C. Kaestle. 1987. Literacy and reading performance in the United States, from 1880 to the present. Reading Research Quarterly 22: 59–78.
- Stokes, J., S. Krashen, and J. Kartchner. 1998. Factors in the acquisition of the present subjunctive in Spanish: The role of reading and study. *ITL: Review of Applied Linguistics* 121–122: 19–25.
- Summers, E., and J. V. McClelland. 1982. A field-based evaluation of sustained silent reading (SSR) in intermediate grades. *Alberta Journal of Educational Research* 28: 110–112.
- Sutton, R. 1985. Librarians and the paperback romance. School Library Journal 32: 253–258.
- Swain, E. 1948. Using comic books to teach reading and language arts. *Journal of Reading* 22: 253–258.
- Swanborn, M., and K. de Glopper. 1999. Incidental word learning while reading: A meta-analysis. *Review of Educational Research* 69(3): 261–285.
- Swanton, S. 1984. Minds alive: What and why gifted students read for pleasure. School Library Journal 30: 99–102.
- Thompson, M. 1956. Why not try self-selection? Elementary English 33 486-490.
- Thompson, R. 1930. The effectiveness of modern spelling instruction. New York: Columbia University Teacher's College. Contributions to Education, No. 436.
- Thorndike, R. 1941. Words and the comics. *Journal of Experimental Education* 10: 110–113.
- ———. 1973. Reading comprehension education in fifteen countries. New York Halsted Press.
- Trelease, J. 2001. The read-aloud handbook. 5th ed. New York: Penguin
- Tsang, W-K., 1996. Comparing the effects of reading and writing on writing performance. Applied Linguistics 17(2): 210–233.
- Tse, L. 1996. When an ESL adult becomes a reader. Reading Horizons 31(1): 16–29.

regerence

- ——. 1998. Ethnic identity formation and its implications for heritage language development. In *Heritage language development*. ed. S. Krashen, L. Tse, and J. McQuillan. Culver City, Calif.: Language Education Associates, pp. 15–29.
- ——. 2001. Resisting and reversing language shift: Heritage-language resilience among U.S. native biliterates. Harvard Educational Review 71(4): 676–706.
- Tudor, I., and F. Hafiz. 1989. Extensive reading as a means of input to L2 learning. *Journal of Research in Reading* 12(2): 164–178.
- Twadell, F. 1973. Vocabulary expansion in the TESOL classroom. TESOL Quarterly 7: 61–78.
- Ujiie, J., and S. Krashen. 1996a. Comic book reading, reading enjoyment, and pleasure reading among middle class and chapter I middle school students. Reading Improvement 33 (1): 51–54.
- ——. 1996b. Is comic book reading harmful? Comic book reading, school achievement, and pleasure reading among seventh graders. California School Library Association Journal 19(2): 27–28.
- ——. 2002. Home run books and reading enjoyment. Knowledge Quest 3(1): 36–37.
- Van Zelst, R., and W. Kerr. 1951. Some correlates of technical and scientific productivity. *Journal of Abnormal Psychology* 46: 470–475.
- Varble, M. 1990. Analysis of writing samples of students taught by teachers using whole language and traditional approaches. *Journal of Educational Research* 83: 245–251.
- Vollands, S., K. Topping, and R. Evans. 1996. Experimental evaluation of computer assisted self-assessment of reading comprehension: Effects on reading achievement and attitude. ERIC Document ED 408 567.
- ——. 1999. Computerized self-assessment of reading comprehension with the accelerated reader: Action research. Reading and Writing Quarterly 15: 197–211.
- Von Sprecken, D., and S. Krashen. 1998. Do students read during sustained silent reading? *California Reader* 32(1): 11–13.

Kejerence

- ——. 2002. Is there a decline in the reading romance? *Knowledge Quest* 30(3): 11–17.
- Von Sprecken, D., J. Kim, and S. Krashen. 2000. The home run book: Can one positive reading experience create a reader? California School Library Journal 23(2): 8–9.
- Walker, G., and I. Kuerbitz. 1979. Reading to preschoolers as an aid to successful beginning reading. *Reading Improvement* 16: 149–154.
- Wallas, G. 1926. The art of thought. London: C.A. Watts. (Abridged version, 1945). Excerpts reprinted in Creativity, ed. P. E. Vernon (1970). Middlesex, England: Penguin, pp. 91–97.
- Waring, R., and M. Takakei. 2003. At what rate do learners learn and retain new vocabulary from reading a graded reader? Reading in a Foreign Language 15(2): 130–163.
- Wayne, R. 1954. Survey of interest in comic books. School Activities 25: 244.
- Weiner, S. 2003. Mutants for the masses: Graphic novel roundup. *School Library Journal* 49 (5): 32–33.
- Wells, G. 1985. Language development in the pre-school years. Cambridge: Cambridge University Press.
- Wendelin, K., and R. Zinck. 1983. How students make book choices. *Reading Horizons* 23: 84–88.
- Wertham, F. 1954. Seduction of the innocent. New York: Rinehart
- Wesche, M. and T.S. Paribakht 1996. Assessing second language vocabulary knowledge: Depth versus breadth. Canadian Modern Language Review 53(1): 13–40.
- West, R., and K. Stanovich. 1991. The incidental acquisition of information from reading. *Psychological Science* 2: 325–330.
- West, R., K. Stanovich, and H. Mitchell. 1993. Reading in the real world and its correlates. Reading Research Quarterly 28: 35–50.
- Wheldall, K., and J. Entwhistle. 1988. Back in the USSR: The effect of teacher modeling of silent reading on pupils' reading behaviour in the primary school classroom. Educational Psychology 8: 51–56.

References

- White, T., M. Graves, and W. Slater. 1990. Growth of reading vocabulary in diverse elementary schools: Decoding and word meaning. *Journal of Edu*cational Psychology 82: 281–290.
- Wilde, S. 1990. A proposal for a new spelling curriculum. Elementary School Journal 90: 275–290.
- Williams, P., and M. Boyes. 1986. Television-viewing patterns and use of other media. In *The impact of television*, ed. T. M. Williams. New York: Academic Press, pp. 215–263.
- Williams, P., E. Haertel, G. Haertel, and H. Walberg. 1982. The impact of leisure-time television on school learning: A research synthesis. American Educational Research Journal 19: 19–50.
- Willig, A. 1985. A meta-analysis of selected studies on the effectiveness of bilingual education. *Review of Educational Research* 55(3): 269–317.
- Willingham, D. 2002. Allocating student study time: "Massed" versus "distributed" practice. American Educator (Summer). Available: http://www.aft.org/american_educator/summer2002/askcognitivescientist.html.
- Witty, P. 1941. Reading the comics: A comparative study. Journal of Experimental Education 10: 105–109.
- Witty, P., and R. Sizemore. 1954. Reading the comics: A summary of studies and an evaluation, I. Elementary English 31: 501–506.
- ——. 1955. Reading the comics: A summary of studies and an evaluation.
 III. Elementary English 32: 109–114.
- Wolf, A., and L. Mikulecky. 1978. Effects of uninterrupted sustained silent reading and of reading skills instruction on changes in secondary school students' reading attitudes and achievement. In 27th Yearbook of the National Reading Conference. Clemson, S.C.: National Reading Conference, pp. 226–228.
- Worthy, J. 1998. "On every page someone gets killed!" Book conversations you don't hear in school. *Journal of Adolescent and Adult Literacy* 41(7): 508–517.

References

2000. Teachers' and students' suggestions for motivating middle-school children to read. In 49th yearbook of the National Reading Conference, ed. T. Shanahan, and F. Rodriguez-Brown. Chicago: National Reading Conference, pp. 441–451.

Worthy, J., and S. McKool. 1996. Students who say they hate to read: The importance of opportunity, choice, and access. In *Literacies for the 21st century: Research and practice*, ed. D. Leu, C. Kinzer, and K. Hinchman. Chicago: National Reading Conference, pp. 245–256.

Worthy, J., M. Moorman, and M. Turner. 1999. What Johnny likes to read is hard to find in school. *Reading Research Quarterly* 34(10): 12–27.

Wright, G. 1979. The comic book: A forgotten medium in the classroom. *Reading Teacher* 33: 158–161.

Wright, R. 1966. Black boy. New York: Harper & Row.

Yoon, J-C. 2002. Three decades of sustained silent reading: A meta-analytic review of the effects of SSR on attitude toward reading. *Reading Improvement* 39(4): 186–195.

Zuckerman, D., D. Singer, and J. Singer. 1980. Television viewing, children's reading, and related classroom behavior. *Journal of Communication* 32: 166–174.

Researcher Index

Ahrens, M., 103, 143, 167
Alatis, J., 170
Alderson, J. C., 164
Alderson, J. C., 164
Allen, E., 172
Allen, E., 172
Allen, L., 12, 157
Allington, Richard, 39, 72, 73, 75, 157
Anastasi, A., 36, 181
Anderson, D., 159
Anderson, R., 8, 13, 14, 19, 46, 51, 97, 102, 124, 157, 165, 168, 176
Applebee, A., 132, 133, 134, 135, 138,

139, 157, 172 Appleby, B., 90, 157 Aranha, M., 40, 157

Aranow, M., 41, 158 Arlin, M., 101, 124, 158

Arnold, H., 115, 116, 183

Armold, L., 135, 158 Asimov, I., 28, 158 Atmood K 46, 111

Atwood, K., 46, 111, 178 Au, J., 59, 175

Bachen, C., 71, 180
Bader, L., 41, 158
Bailey, A., 30, 158
Bailyn, L., 102, 124, 158
Bailyn, L., 102, 73, 75, 157
Baldwin, R., 50, 181
Barham, I., 28, 41, 164
Barnes, W., 25, 26, 62, 134, 183
Baughman, J., 158
Beck, L, 15, 158
Beentjes, J., 142, 144, 145, 158

Biber, D., 137, 158
Bintz, W., 52, 54, 118, 119, 158
Blackmore, A., 163
Blakely, W., 93, 102, 158
Blanton, W., 79, 174
Blok, H., 78, 158
Blosser, B., 145, 158
Blohnhorst, B., 41, 159
Boice, Robert, 139, 152, 153, 159
Book Industry Study Group (cited in Neuman 1995), 142

Boyes, M., 65, 96, 153, 187 Brandenburg, G., 26, 159 Buckley, S., 140, 175 Brunett, G., 55, 166 Brocka, B., 94, 159 Broaddus, K., 30, 83, 118, 169 Brimmer, K., 121, 178 Brandlin, B., 72, 173 Bustead, A., 48, 160 Busch, J., 142, 159 Bus, A., 78, 159 Burton, S., 141, 159 Burt, M., 130, 163 Burley, J., 40, 42, 43, 159 Burger, S., 135, 159 Bryant, J., 159 Brown, J., 141, 159 Brown, E., 78, 164 Brazerman, C., 55, 159 Brassell, D., 78, 159

Calonico, J., 141, 159 Camiciottoli, B. C., 147, 160

...

Evans, R., 125, 126, 185

Csikszentmihalyi, M., 29, 36, 162, 164, Evans, H., 40, 164 Entwhistle, J., 84, 186 Emery, C., 36, 164 El-Shabbaz, El-Hajj Malik, 21, 164 Ellsworth, R., 96, 175 Elley, W., 3, 4, 5, 28, 41, 45, 65, 67, 75, Eller, R., 78, 164 Eldridge, J., 41, 158 Elbow, P., 137, 163 Eilers, R., 148, 177 Eckerson, L., 19, 182 Dupuy, B., 15, 31, 163 Dulay, H., 130, 163 Duke, N., 71, 163 Duin, J., 163 Duggins, J., 91, 163 Dorrell, L., 108, 163 Dolch, E., 25, 162 Doig, D., 163 Dirda, Michael, 74, 123, 163 Di Loreto, C., 70, 163 Denton, K., 78, 162 Della Fave, A., 29, 174 Degrotsky, D., 145, 162 de Glopper, K., 48, 184 Day, R., 15, 162 Davis, Z., 41, 162 Davis, F., 33, 41, 162 Daly, J., 36, 162 Cyrog, F., 41, 162 **Curtiss, M., 176** Curtiss, H., 25, 162 Cunningham, A., 12, 35, 162, 183 Cummins, J., 74, 147, 162 Duker, S., 158, 166, 181 Dressell, P., 135, 163 Douglas, M., 162 78, 90, 132, 164

Fasick, A., 143, 165 Farrell, E., 33, 165 Fielding, L., 8, 46, 97, 102, 157 Feitelson, D., 79, 165 Fairbank, Maslin, Maullin and Fadiman, C., 82, 165 Fader, D., 4, 41, 91, 132; 163, 164 Facemire, N., 127, 164 Frawley, W., 169 Frebody, P., 124, 165 Foertsch, M., 62, 132, 135, 144, 157, Flurkey, A., 37, 130, 165 Finnocchiaro, M., 163 Finn, C., 35, 179 Finegan, E., 19, 52, 165 Figurel, J. A., 172 Garan, E., 165 Garcia, G., 171 Ganguli, A., 139, 165 Filback, R., 35, 165 Gollasch, F., 166 Goldstein, A., 79, 165 Goertzel, V., 54, 166 Goertzel, T., 54, 166 Goertzel, M., 54, 166 Godbey, G., 32, 141, 154, 180 Gleadow, N., 134, 164 Glasser, Deborah, 100 Gilbert, L., 51, 166 Gaver, M., 59, 65, 165 Gallup, 154, 165 Gadberry, S., 141, 165 Goodman, Kenneth, 25, 37, 130, 147, Goodman, I., 25, 26, 62, 134, 183 Goodman, G., 120, 166 165 Associates, 165

> Gradman, H., 10, 11, 166 Gough, P., 78, 174 Gupta, A., 148, 167 Guofang (cited in Norton 2003), 124 Griswald, D., 91, 142, 160 Guice, S., 72, 73, 75, 157 Gribbons, B., 10, 173 Greene, J., 148, 167 Gray, G., 30, 166 Greaney, V., 3, 30, 57, 63, 81, 85, 86, Graves, M., 55, 166, 187 Grafft, W., 90, 173 Gorman, M., 95, 166 Gordon, I., 40, 166 Goodman, Y., 25, 166 87, 102, 116, 166, 167

Haertel, E., 144, 187 Hamilton-Pennell, C., 66, 171, 172, Haight, P., 144, 180 Haggan, M., 25, 167 Hafner, L., 114, 115, 167 Hafiz, F., 3, 43, 167, 185 Haertel, G., 144, 187 Hammill, D., 27, 54, 167 Hemphill, H., 25, 26, 62, 134, 183 Hayes, D., 103, 143, 167 Hayes (cited in Trelease 2001), 107 Haugaard, K., 104, 105, 106, 112, 167 Hartl, B., 95, 167 Harrison, M., 35, 183 Harris, J., 41, 174 Harris, C., 166 Hanania, E., 10, 11, 166 Herbert, S., 34, 167 Heisler, F., 102, 167 Hegarty, M., 57, 63, 86, 87, 167 Healy, A., 41, 167 Herman, P., 13, 14, 19, 51, 168, 176 Herda, R., 86, 167

Evans, P., 134, 164

Csikszentmihalyi, I., 174, 181

Cramond, J., 141, 159

Hornby, M., 71, 180 Hopkins, K., 40, 41, 181 Holt, S., 40, 43, 168 Hollingsworth, P., 40, 179 Hollingshead, A., 16, 169 Hiramatsu, M., 15, 162 Hinchman, K., 174, 188 Himmelweit, H., 141, 142, 168 Hillocks, G., Jr., 27, 135, 168 Heyns, B., 60, 168 Hernandez-Ramos, P., 71, 180 Hermann, F., 15, 168

Hunnicutt, C., 171 Huser, M., 40, 168 Hunting, R., 135, 168 Hughes, J., 25, 168 Hudson, E., 79, 182 Hoult, T., 94, 168

Houle, R., 59, 168 Horst, M., 15, 46, 47, 168

Ivey, G., 30, 83, 118, 169 lverson, W., 171 Ingham, J., 168 Inge, M. Thomas, 93, 107, 168

Jenkins, M., 41, 169 Johnson, R., 32, 41, 169 Jacoby, L., 16, 169 Johnson, S., 115, 116, 183 fenkins, L., 132, 135, 157 [anopoulos, M., 10, 132, 169

Jacobs, G., 41, 44, 173, 179

lönsson, A., 145, 169

Kaplan, J., 10, 132, 169 Kim, H., 83, 169 Kerr, W., 54, 185 Kear, D., 96, 175 Kartchner, J., 9, 184 Kaestle, C., 184

> Krashen, Stephen D., 3, 6, 7, 8, 9, 10, Krashen, Daniel, 123 Konopak, B., 51, 169 Kitao, S. K., 127, 169 Kitao, K., 127, 169 Kita, B., 79, 165 Kippax, S., 153, 176 Kinzer, C., 174, 188 Kincaid, G., 135, 163 Kim, J., 9, 12, 57, 60, 83, 169, 186 35, 36, 38, 40, 41, 45, 46, 51, 53, 175, 178, 179, 180, 182, 184, 185 147, 148, 149, 152, 160, 161, 163, 82, 83, 84, 85, 102, 113, 119, 120, 54, 60, 62, 66, 68, 71, 72, 74, 81, 165, 169, 170, 171, 172, 173, 174 123, 125, 126, 130, 132, 135, 139, 12, 15, 16, 18, 19, 27, 28, 33, 34,

Kyte, G., 24, 171 Kuerbitz, I., 79, 186 Kretke, G., 41, 42, 161

Lancaster, T., 171 Langer, J., 132, 133, 134, 135, 138, 139, Lance, K., 66, 71, 72, 171, 172, 180 Lamme, L., 86, 171 Lamb, H., 28, 41, 164 LaBrant, L., 116, 171 157, 172

Lee, Y. O., 10, 173 Lee, S. Y., 9, 10, 12, 36, 89, 132, 135, Lawson, H., 41, 172 Langford, J., 172 Lawson, E., 79, 182 Laufer, B., 49, 50, 172 Larsen, S., 27, 54, 167 Lao, C. Y., 51, 58, 59, 60, 77, 84, 172 161, 172

Mason, Beniko, 6, 7, 40, 41, 135, 136, Manning, G., 41, 42, 89, 174 Manning, M., 41, 42, 89, 174 MacDonald, H., 96, 174 Maccoby, E., 141, 173 Martinez, M., 78, 174 Marshall, J., 139, 174 Mann, J., 41, 174

McClelland, J. V., 40, 184 McCormick, S., 173, 175, 183 McDonald, M., 41, 174 McCracken, R., 85, 174 McCracken, M., 85, 174 McCaslin, E., 15, 158

McKeown, M., 15, 158, 176 McKenna, M., 96, 175

McEvoy, G., 141, 175

Researcher Index

LeMoine, N., 72, 173

Li, S., 72, 73, 75, 157 Lewin (cited in Witty and Sizemore Leung, C., 78, 173 Leu, D., 174, 188 Leonhardt, M., 173 1955), 94

Lokke, V., 135, 173 Lituanas, P., 41, 173

Liberman, M., 143, 173

Lorge, I., 19, 173 Lomax, C., 77, 173

Lowrey, L., 90, 173 Lucas, J., 33, 41, 162

Lyness, P., 93, 173 Lyle, J., 141, 153, 181

Mangubhai, F., 4, 41, 65, 90, 132, 164

Maynes, F., 174 Mathis, D., 174 Mathabane, Mark, 106, 174 Massimini, F., 29, 174 Mason, G., 79, 174

> McQuillan, Jeff, 12, 31, 52, 57, 59, 66, Meara, P., 15, 46, 47, 168 McSeveney, D., 141, 159 McNutt, G., 27, 54, 167 McNeil (cited in Fader 1976), 4, 132 McLoyd, V., 117, 121, 175 McKool, S., 61, 188 173, 175, 180, 185 67, 70, 72, 119, 125, 149, 170,

Mikulecky, L., 40, 187 Michaelson, N., 72, 73, 75, 157 Mellon, C., 175 Meister, G., 14, 181 Medrich, E., 140, 175

Monteith, M., 99, 176 Mitchell, H., 12, 35, 186 Minton, M., 34, 176 Miller, M., 75, 176 Miller, G., 19, 176 Miller, F., 95, 175

Morrow, L., 57, 58, 63, 77, 84, 85, 86, Moorman, M., 73, 96, 188 Moore, A., 95, 176 Montmarquette, C., 59, 168

Murray, J., 153, 176, 180 Muñoz, H., 76, 176 Mullis, I., 132, 133, 134, 135, 157 Moyle, D., 167

90, 176

National Institute of Child Health Nagy, W., 13, 14, 19, 51, 168, 176 National Council on Writing, 134, 176 Nation, P., 14, 181

Neuman, S., 57, 68, 70, 72, 77, 85, 86, Nell, V., 29, 31, 32, 177 Necochea, Juan, 109, 161 NCES, 177 and Human Development (NICHD), 42, 45, 177

LeFebre, J., 79, 182

103, 141, 142, 144, 145, 146, 177

i.

Norton, B., 100, 124, 177 Nisbet, S., 16, 51, 177 Niles, J., 166 Ng, S. M., 173 Newell, G., 139, 177

Overstreet, R., 182 O'Tuel, F., 40, 43, 168 Ormrod, J., 51, 178 Oller, D. K., 148, 177 O'Brian, I., 52, 177 Oppenheim, A., 141, 142, 168 Omura, C., 15, 162 Oliver, M., 33, 40, 177 O'Brian, B., 72, 173

Parrish, B., 46, 110, 111, 112, 178 Parker, E., 141, 153, 181 Palhinda, E., 10, 132, 169 Paik, H., 140, 144, 161 Pack, S., 63, 178 Paribakht, T.S., 49, 186 Pappas, C., 78, 164 Palmer, B., 115, 167

Pellegrini, A., 78, 159 Pfau, D., 3, 81, 178 Petre, B., 32, 178 Petersen, L., 171 Pearson, P. D., 51, 168 Pavonetti, L., 121, 178 Pasta, D., 75, 149, 179

Pitts, S., 78, 178 Pitts, M., 15, 178 Pilgreen, J., 2, 33, 81, 85, 178 Pikulski, J., 78, 173

Polak, J., 9, 178

Potter, W., 145, 179 Postman, N., 142, 178 Postlethwaite, T., 8, 179

Pulido, D., 15, 179 Pucci, S., 75, 149, 154, 179

> Rubin, V., 140, 175 Roth, G., 101, 124, 158 Rodney, M., 171, 180 Rodrigo, V., 12, 31, 175, 180 Rucker, B., 113, 114, 181 Rubinstein, E., 180 Ross, P., 91, 180 Ross, K. N., 8, 179 Roser, N., 78, 174 Rosenthal, N., 97, 180 Roizen, A., 140, 175 Roberts, D., 71, 180 Rice, M., 144, 180 Rodriguez-Brown, F., 188 Robinson, J., 32, 141, 154, 180 Richek, M., 78, 183 Richards, A., 24, 180 Rice, J., 26, 53, 180 Rice, E., 114, 134, 180 Richard, A., 77, 180 Reutzel, R., 40, 179 Renandya, W., 41, 44, 173, 179 Rehder, L., 51, 179 Reed, C., 91, 179 Ravitch, D., 35, 179 Ramos, F., 60, 86, 167, 179 Ramirez, D., 75, 149, 179 Ramey, D., 75, 149, 179 Rajan, B. R. S., 44, 179

Schmid, J., 135, 163 Schatz, E., 50, 181 Schafer, C., 36, 181 Sato, I., 29, 181 Sartain, H., 40, 41, 181 Saragi, Y., 14, 181 San Diego County, 41, 181 Salyer, M., 10, 132, 181 Sadowski, M., 33, 181 Schon, I., 40, 41, 181

> Shanahan, T., 42, 182, 188 Segal, J., 22, 23, 182 Sherrill, A., 88, 140, 160 Senechal, M., 79, 182 Sellars, S., 41, 159 Seashore, R., 19, 182 Schramm, W., 141, 153, 181 Schoonover, R., 116

Shimatani, H., 127, 169

Shontz, M., 75, 176

Singer, D., 141, 153, 188

Sitter, C., 171

Tse, L., 12, 70, 81, 148, 163, 170, 172,

175, 184, 185

Tsang, W-K., 43, 45, 184

146, 184

Trelease, Jim, 77, 80, 82, 91, 107, 108,

Towner, J., 40, 164 Topping, K., 125, 126, 185 Thorndike, R., 97, 98, 115, Thompson, R., 25, 27, 184

, 184

Sizemore, R., 93, 94, 123, 187

SmartGirl Internette, Inc., 182

Smith, C., 68, 71, 72, 182

Smith, F. H., 91, 123, 142, 160

152, 182, 183

Snow, C., 25, 26, 62, 134, 183 Smith, R., 20, 183

Sommers, N., 131, 183

Sperzl, E., 40, 101, 105, 183

Stahl, S., 78, 183

Stanovich, Keith, 9, 11, 12, 35, 157, Stanley, J., 160

Stedman, L., 184 Stokes, J., 9, 184 161, 162, 183, 186

Strecker, S., 78, 174

Singer, J., 141, 153, 188

Slover, V., 93, 182

Smith, E., 182

Smith, Frank, 18, 19, 37, 116, 117, 125, 130, 131, 133, 136, 137, 147, 150,

Smith, M., 55, 143, 183

Southgate, V., 115, 116, 183

Schulze (cited in Monteith 1980), 99 Schoolboys of Barbiana, 39, 40, 181

> Swain, E., 102, 184 Sutton, R., 112, 184

Supanich, G., 20, 183 Summers, E., 40, 184

Swanton, S., 184 Swanborn, M., 48, 184

Tannen, D., 170 Thompson, M., 33, 184

Takakei, M., 46, 47, 48, 49, 186

Shooter, Jim, 92, 182 Shin, F., 7, 40, 81, 88, 89, 182

Simonton, D., 36, 54, 182

Slater, W., 55, 166, 187

Urquart, A., 164 Ulanoff, S., 154, 179

Ujiie, J., 83, 84, 102, 185

Twadell, F., 49, 185 Turner, M., 73, 96, 188 Tullos, S., 115, 167 Tudor, I., 3, 43, 167, 185

Van Zelst, R., 54, 185 Van Ijzendoorn, M., 78, 159 Van der Voort, T., 142, 144, 145, 158

Veatch, J., 41, 158 Varble, M., 135, 185 Vandevier, R., 78, 183

Vincent, C., 141, 175 Vince, P., 141, 142, 168 Vernon, P. E., 186

Vojir, C., 40, 41, 181

Von Sprecken, D., 34, 54, 83, 85, 185, Vollands, S., 125, 126, 185

Researcher Index

White, T., 55, 187 Wilde, R., 141, 159 Wells, G., 79, 186 Willig, A., 148, 187 Williams, T. M., 162, 187 Williams, T., 146, 162 Williams, P., 65, 96, 144, 153, 187 Wilde, S., 27, 187 White, H., 15, 53, 178 Wheldall, K., 84, 186 West, R., 9, 12, 35, 183, 186 West, J., 78, 162 Wesche, M., 49, 186 Wertham, F., 93, 97, 123, 186 Wendelin, K., 90, 91, 142, 186 Welborn, L., 66, 172 Weinstein, C., 58, 77, 176 Weiner, S., 95, 186 Wayne, R., 123, 186 Waring, R., 46, 47, 48, 49, 186 Wallas, G., 54, 186 Walker, G., 79, 186 Walberg, H., 144, 187

Willingham, D., 48, 187
Wilson, D., 36, 162
Wilson, P., 8, 46, 97, 102, 157
Wilson, P., 8, 46, 97, 102, 157
Winograd, P., 139, 177
Witty, P., 93, 94, 101, 102, 123, 187
Wolf, A., 40, 187
Worthy, J., 61, 73, 78, 90, 96, 118, 174, 187, 188
Wright, G., 98, 188
Wright, Richard, 20, 21, 22, 188
Wykoff, G., 135, 173
Wyllie, M., 28, 41, 164

Xu, J., 37, 130, 165

Yamamoto, M., 127, 169 Yeok, S. P., 148, 167 Yoon, J-C., 34, 188 Yuen, S., 75, 149, 179

Zinck, R., 90, 91, 142, 186 Zuckerman, D., 141, 153, 188 Zutell, J., 173, 175, 183

Subject Index

Accelerated Reader, 119–122, 125–127
Access to reading, 57–77
classroom, 58, 71,74
during SSR, 85
at home, 57–58, 68
public libraries, 60–61, 68, 69, 70
school libraries, 58–59, 72, 73
Animorphs, 83
Archie, 100
Assigned reading, 51–52, 150
Author recognition test, 11–13, 121

Bedtime reading, 31-32
Bilingual education, 148
Book display, 90
Book reports, 127-128
Bookstores, 68-69
Bush, Laura, 76

Captain Underpants, 83, 84
Carson, Ben, 87
Charlotte's Web, 83
Chinese, 9, 132–133
Comfort and quiet, 63
Complexity argument, 18, 133
Complexity argument, 37
Comprehensible input, 37
Context, 15, 50–51, 123–125
Club membership, 131, 152
Club membership, 131, 152
Club membership, 131, 152
Comic books, 46, 83, 91–110
classic comics, 101, 123
comic book reading and behavior, 94–95, 107
conduit to heavier reading, 103–110

effect on language development, 97–103
and heritage language development, 148–149
history of, 93–96
pictures, 123–125
texts, 97–100
Computer use and reading, 154

Desmond Tutu, 107
Direct encouragement of reading, 86–89
Direct instruction, limitations, 18–19, 25–28, 70, 131–132
Direct instruction as testing, 38

El-Shabbazz, El-Haijj Malik (Malcolm X), 21–22 Error correction, 18, 22

Fantastic Four, 99, 106
Free voluntary reading, defined, ix, 1
evidence for, 1–17
reported, 8
enjoyable, 28–34, 54
Flow, 28

Garfield, 82
Goosebumps, 73,74, 88
Glasser, Deborah, 100
Grammar, 3, 4, 5, 131–132
Graphic novels, 95

Subject Index

Harry Potter, 117
Home run books, 82–84
Hooked on Books (Fader), 4, 91

Kofiko, 79–80 Krashen, Daniel, 123

Incentives for reading (rewards), 116–122

Landers, Ann, 138
Lee, Stan, 94
Libraries, 63-77
classroom, 58, 71, 74
funding, 75-77
public, 60, 67, 68, 69, 70
school, 58-59, 65-66, 72, 73
and second language acquirers,
74-75

Librarians, 66, 72, 122
Library latch-key kids, 63
Light reading, 92-116
Listening comprehension, 5
Literacy crisis, ix
Literature circles, 89-90

Manga, 96 Mathabane, Mark, 106 Models, 84, 85 Movies and reading, 153

Magazines, 113

Spelling demons, 129

National Reading Panel, 42-43, 45-46

Oral/aural language ability, 3

Paperbacks, 90–91
Peer pressure, 90
Poverty, 67, 68–77, 79, 122, 139–140
Phonics, ix, 123
Popular literature, 51–52

Punctuation, 129

Radio listening and reading, 153
Reading aloud, 77–81, 125, 141–142
Reading and cognitive development, 35–36, 54–55
Read and test studies, 13–16, 51
Reading and writing apprehension,

Reading comprehension, 2, 3, 4, 8, 87
Reading experience, 81–82
Reading hypothesis, 17
Reading management programs,
119–122

Reading speed, 8 Regular daily writing, 152–153 Reluctant readers, 61–62

Schoolboys of Barbiana, 39–40

Second language acquirers, 74, 109, 113, 146–149
Secret readers, 52
Selective reading, 55
Self-selected reading, 2, 87–88, 116
Shooter, Jim, 92
Spanish subjunctive and reading, 9–10

Spelling development, 3, 9, 16–17, 51, 87
Spelling growth without instruction, 24–27, 54
Skill-building, 18
Summer reading, 7, 9, 88–89
Sustained silent reading defined, 2
reactions to, 45
reading during, 85
research, 40–43

Teen romances, 46, 110–113
Television
and reading, 137–142, 153
and language development,
144–146

language of 142–144
Time to read, 85–86
TOHFL (Test of English as a Foreign
Language), 10

Trelease, Jim, 77, 80, 107

Vocabulary development, 3, 4, 8, 13–15, 20, 46–50, 87 size, 19, 46, 55 Subject Index

Wright, Richard, 20–21 Writing, 3, 4, 7, 20, 21, 132–139, 152–153 and thinking, 137–139, 152 Writing apprehension, 36

Sweet Valley High, 111, 112

studies using comic books, 101

About the Author

STEPHEN D. KRASHEN is Emeritus Professor of Education at the University of Southern California. He is best known for his work in establishing a general theory of second language acquisition, as the cofounder of the Natural Approach, and as the inventor of sheltered subject matter teaching. He is the author of numerous books.