

Core Knowledge Language Arts

Kindergarten - Third Grade Overview

Core Knowledge Language Arts (CKLA) is based on decades of cognitive science research revealing that reading is a two-lock box, a box that requires two keys to open. The first key is decoding skills, which are addressed in the Skills strand of CKLA. The second key is oral language, vocabulary, and background knowledge sufficient to understand what is decoded. These are covered in the Listening & Learning strand. Together, these two strands unlock a lifetime of reading for all children. Using this approach, CKLA not only meets the Common Core standards, it exceeds them.

The Skills strand of CKLA teaches reading and writing in tandem. Children practice blending (reading) and segmenting (spelling) using the sound spellings they have learned. Decodable stories are introduced



in the sixth of the 10 units for kindergarten. Stories are 100% decodable—made up entirely of words and sound spellings the students have been taught, or "tricky words" that also have been explicitly taught. Handwriting, spelling, and the writing process are addressed in the Skills strand. The Skills strand was designed to be fully in accord with the findings of the National Reading Panel and it is aligned with the goals put forth in the Reading Foundational Skills section of the Common Core standards.

Decoding is essential, but so is the ability to comprehend what has been decoded—and that depends on vocabulary and content knowledge. The Listening & Learning strand lessons, comprised of teacher read-

alouds, class discussions, vocabulary work, and extension activities, build on the research finding that students' listening comprehension outpaces their reading comprehension throughout elementary school. These read-alouds and exercises are organized in 11 to 12 domains per grade. Each domain is dedicated to a particular topic—such as Taking Care of the Earth, Fighting for a Cause, or Native Americans—and the class stays focused on that topic for 10–15 days of

instruction. In addition, the domains are carefully organized to build



on each other within and across grades. This focused, coherent, systematic approach is the most efficient and effective way to build students' knowledge and vocabulary. It is interesting and engaging too, as the content goes well beyond standard early grades language arts fare to include important historical and scientific events, ideas, and people.

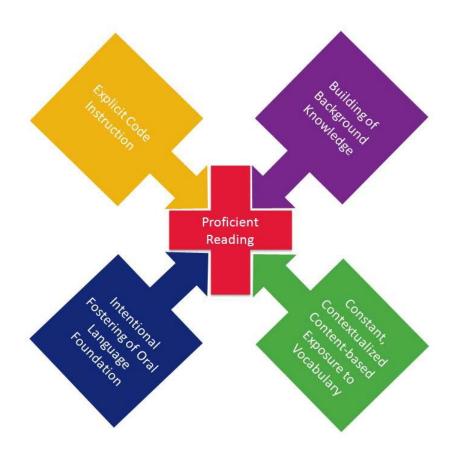


Native Americans

Based on a successful pilot of CKLA in New York City, in which CKLA students out-performed comparison students on all but one measure (and on that one the two groups were equivalent), we are looking forward to CKLA being more and more widely adopted over the next few years. Even though the pilot study was small, with just 10 CKLA schools and 10 comparison schools, it showed exactly what a large body of cognitive science research predicts: Young students can learn to read while also making impressive gains in science and social studies knowledge and vocabulary. Far too many schools focus the early grades on learning to read, assuming they can start building students' academic knowledge and vocabulary in later grades. CKLA shows that with a well-designed program, students can develop the skills of reading, writing, listening, and speaking while also acquiring knowledge of domains like Early World Civilizations, The Five Senses, Fairy Tales and Tall Tales, Astronomy, The Viking Age, and more.

The underlying philosophy of CKLA is that effective ELA instruction meets the needs of the students in ways that heed two essential findings from cognitive science: decoding (and encoding) must become automatic and fluent, and broad background knowledge and vocabulary are essential to comprehension.

To be child-centered and research-based, CKLA is designed around the following four principles of instruction:



¹ To read about the research foundation for CKLA and to examine the pilot results, please see http://www.coreknowledge.org/ckla-research-basis.

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1. Explicit instruction in the code is necessary for automatic and effortless decoding.

It is not enough to teach children to be familiar with letters and sounds. To create strong, fluent readers, instruction must help children read words automatically and effortlessly. Explicit instruction in, and extensive practice with, the spelling patterns of the English language is the

only way that children can transition from learning to read (in which their mental energy is mostly focused on decoding) to reading to learn (in which, since decoding has become automatic, their mental energy can be devoted to comprehension of more complex texts and topics).

CKLA's Skills strand organizes children's reading experiences to maximize their practice in newly taught spelling-sound patterns. This is achieved in two ways. The first is the organization of instruction. A unique



database was created to index every word in the English language and determine the most frequent spelling patterns. CKLA organizes instruction to teach the most frequent spelling patterns first in order to maximize the words children can read and move them into engaging, well-written, decodable texts early in the program.

These 100% decodable readers are uniquely designed to provide children intensive practice with the code within an authentic reading experience. They reinforce children's sense of success as readers by eliminating the distraction of encountering untaught spelling patterns or exceptions. These decodable texts not only engage children in a variety of topics, they are written in the style of chapter-books and inspire children to want to read more.

2. Background knowledge is essential to strong comprehension.

The ability to be a critical and strategic reader depends on having a wide breadth of knowledge and related vocabulary. Comprehension isn't a transferable skill that can be applied equally well to any text. While reading comprehension strategies are often helpful, the less the reader knows about the topic at hand, the less he or she will grasp from the text.

Building knowledge to build strong comprehension is the core premise of CKLA's Listening & Learning strand. The Listening & Learning strand provides fiction and nonfiction teacher readalouds organized within domains of knowledge. There are 11–12 domains a year, each taking 10–15 days of instruction and giving children deep exposure to topics such as Nursery Rhymes and Fables, Seasons and Weather, Presidents and American Symbols, and Light and Sound. The read-alouds in each domain build on each other, and domains within and across grades build on each other. The result is children with surprisingly broad knowledge of literature, science, social studies, and the arts, as well as the ability to comprehend increasingly complex ideas and texts, to make connections and inferences, and to engage in lengthy discussions of the works they are hearing read aloud.

3. Vocabulary learning is most efficient when it is contextualized, content-based, and constant. There is nothing wrong with studying vocabulary lists—but the sheer number of words that children know clearly demonstrates that most vocabulary is learned in context, by hearing a word many times and thus having many contexts from which to infer its meaning.

The average six year old knows 6,000 words; the average high school graduate knows 40,000 words. Between third and twelfth grades, children learn about 3,000 words a year. Not all these words are known equally well and most of these words are never taught—they are inferred through multiple exposures. Exposure to words that are related to different bodies of knowledge (i.e., domain-specific vocabulary like *photosynthesis* and *couplet*) and exposure to academic words that apply to many topics (e.g., *gravity*, *analyze*, *chorus*, and *trivial*) are both necessary for building a strong vocabulary. Everyday conversations, even classroom conversations, typically contain few of these words. Varied and complex texts on a wide range of topics—fiction and non-fiction—are necessary to provide children the multiple exposures they need to build their vocabulary.

Read-alouds of carefully sequenced texts, which are at the heart of the Listening & Learning strand, are a powerful way to build young children's vocabulary because they provide multiple exposures to words and the ideas they represent. Even better, the texts are more sophisticated than what the children can read on their own, and the teacher is there to answer questions and foster discussions that get students to use the words they are learning. By hearing complex texts on a coherent and systematically ordered set of topics, children begin connecting words to each other, to words they already know, thus forming an intricate web of words that they will continue to weave their whole lives. These words, and their connections, become children's mental encyclopedia, allowing them to continually, and ever more easily, access the knowledge they need to understand what they read.

4. The connection between oral and written language must be supported.

Although children do transition from learning to read to reading to learn in elementary school, it is not until the end of middle school that students' reading comprehension is as strong as their listening



comprehension. Even as children become strong readers and writers, there is a benefit to hearing and discussing complex texts that the teacher reads aloud. What is more, reading and writing are not all there is to English language arts—listening and speaking are important too. CKLA's two-strand model respects all aspects of language development, and is designed to ensure that children become competent in all modes of communication.

To learn more about CKLA, go to www.coreknowledge.org/ckla. To download CKLA for free, go to www.coreknowledge.org/ckla-files.



The Core Knowledge Language Arts Program

Bibliography

Overall Program Rationale:

Principle: There are two keys to reading comprehension: decoding skills and the ability to understand what you have decoded.

Relevant Research:

- E. D. Hirsch, Jr., Cultural Literacy. Boston: Houghton Mifflin, 1987.
- E. D. Hirsch, Jr., The Knowledge Deficit. New York: Houghton Mifflin, 2006.
- P. B. Gough, W. A. Hoover, and C. Peterson, "Some Observations on a Simple View of Reading" in *Reading Comprehension Difficulties*, ed. Cornoldi and Oakhill. Mahwah, NJ: Lawrence Erlbaum Associates, 1996.
- W. E. Tunmer and W. A. Hoover, "Cognitive and Linguistic Factors in Learning to Read" pp. 175-214 in *Reading Acquisition*, ed. P. B. Gough, L. C. Ehri, and R. Treiman. Hillsdale, NJ: Lawrence Erlbaum, 1992.
- W.A. Hoover and P. B. Gough, "The Simple View of Reading." *Reading and Writing* 2 (1990), 127-160.
- R. P. Carver, "Predicting Reading Level in Grades 1 to 6 from Listening Level and Decoding Level." *Reading and Writing* 10 (1998), 121-154.
- H. W. Catts, T. Hogan, S. Adlof, "Developmental Changes in Reading and Reading Disabilities." *The Connections Between Language and Reading Disabilities.* Lawrence Erlbaum Associates, 2004, 25-40.
- H. W. Catts, S. M. Adlof, S. E. Weismer, "Language Deficits in Poor Comprehenders: A Case for the Simple View of Reading." *Journal* of Speech, Language, and Hearing Research 49 (2006): 278-293.
- D. A. Saarnio, E. R. Oka, and S. G. Paris, "Predictors of Comprehension" in *Reading and Its Development: Components Skills Approaches*, ed. T. H. Carr and B. A Levy. New York: Academic Press, 1990.
- A. E. Cunningham, K. E. Stanovich, M. R. Wilson, "Cognitive Variation in Adult College Students Differing in Reading Ability" in Reading and Its Development: Components Skills Approaches, ed. T. H. Carr and B. A Levy. New York: Academic Press, 1990.
- C. Juel, P. L. Griffith, and P. Gough, "Acquisition of Literacy: a Longitudinal Study of Children in the First and Second Grade." *Journal of Educational Psychology* 78 (1986): 243-255.
- P. G. Aaron, "Can Reading Disabilities be Diagnosed Without Using Intelligence Tests?" Journal of Learning Disabilities 24 (1991): 178-191
- R. M. Joshi, K. A. Williams, and J. R. Wood, Predicting Reading Comprehension from Listening Comprehension: Is This the Answer to the IQ Debate?" in C. Hulme and R. M. Joshi, eds. *Reading* and Spelling: Development and Disorders, 319-327 Mahwah, NJ:

Erlbaum.

• K. Nation and M. Snowling, "Assessing Reading Difficulties: The Validity and Utility of Current Measures of Reading Skill." *British Journal of Educational Psychology* 67 (1997) 359-370.

Skills Strand Rationale:

Principle: Phonics is a more effective way to teach decoding than "whole language" or whole word methods.

- J. Chall, Learning to Read: The Great Debate. New York: McGraw Hill. 1988
- M. J. Adams, Beginning to Read: Thinking and Learning About Print. Cambridge: MIT Press, 1994.
- C. E. Snow, et al, *Preventing Reading Difficulties in Young Children*. Washington, DC.: National Academy Press, 1998.
- D. N. Langenberg, et al., *Report of the National Reading Panel*. National Institute of Child Health and Development, 2000.
- G. L. Bond and R. Dykstra, "The Cooperative Research Program in First-Grade Reading Instruction." *Reading Research Quarterly* 2, 1-142.
- M. A. Evans and T. H. Carr, "Cognitive Abilities, Conditions of Learning, and Early Development of Reading Skill." *Reading Research Quarterly* 20 (1985) 327-350.
- K. Stanovich, *Progress in Understanding Reading: Scientific Foundations and New Frontiers*. Guilford Press, 2000.
- K. Stanovich and P. Stanovich, "How Research Might Inform the Debate About Early Reading Acquisition," Journal of *Research in Reading* 18 (1995).
- K. E. Stanovich, "Speculations on the Causes and Consequences of Individual Differences in Early Reading Acquisition," pp. 307-342 in *Reading Acquisition*, ed. P. B. Gough, L. C. Ehri, and R. Treiman. Hillsdale, NJ: Lawrence Erlbaum, 1992.
- P. B. Gough and M. L. Hillinger, "Learning to Read: An Unnatural Act." *Bulletin Of the Orton Society* 20 (1980), 179-196.
- W. E. Tunmer and W. A. Hoover, "Phonological Recoding Skill and Beginning Reading." *Reading & Writing* 5 (1993) 161-179.
- W. E. Tunmer and J. Chapman, "Teaching Strategies for Word Identification." *Learning to Read: Beyond Phonics and Whole Language*. ed. Brian Thompson and T. Nicholson. New York Teachers College Press, 1999, pp. 74-102.
- P. B. Gough and S. A. Wren, "The Decomposition of Decoding," in C. Hulme and R. Joshi, eds., *Reading and Spelling; Development* and Disorders. Mahwah, NJ: Lawrence Erlbaum Associates, 1998.
- K. Rayner, et al., "How Psychological Science Informs the Teaching of Reading." *Psychological Science in the Public Interest* 2 (2001) 31-74.

- I. Y. Liberman and A. M. Liberman, "Whole Language vs. Code Emphasis: Underlying Assumptions and their Implications for Reading Instruction." *Annals of Dyslexia* 40 (1990) 51-76.
- D. L. Share, "Phonological Recoding and Self-Teaching: The *Sine Qua Non* of Reading Acquisition." *Cognition* 55 (1995): 151-218.
- A. Lesgold and L. Resnick, How Reading Difficulties Develop: Perspectives from a Longitudinal Study. University of Pittsburgh, 1981.
- S. Shaywitz, Overcoming Dyslexia. New York: Vintage Books, 2003.

Principle: Synthetic phonics, or linguistic phonics, in which instruction is oriented from sound to letter, is an especially powerful way to teach phonics.

Relevant Research:

- D. McGuinness, Why Our Children Can't Read and What We Can Do About It. New York: The Free Press, 1997.
- D. McGuinness, Early Reading Instruction: What Science Really Tells Us About How to Teach Reading. Cambridge: MIT Press, 2006.
- C. Walcutt, G. McCracken, and J. Lamport, *Teaching Reading: A Phonic/Linguistic Approach to Developmental Reading*. New York: Macmillan, 1974.
- R. S. Johnston and J. E. Watson, "Developing Reading, Spelling and Phonemic Awareness Skills in Primary School Children." *Reading* 31 (1997), 37-40.
- J. E. Watson and R. S. Johnston, *Accelerating Reading Attainment: The Effectiveness of Synthetic Phonics*. St Andrews, Scotland: University of St. Andrews, 1999.
- R. S. Johnson and J. E. Watson, *The Effects of Synthetic Phonics Teaching on Reading and Spelling Attainment, A Seven-Year Longitudinal Study.* Scottish Government Report, 2005, online.
- T. Burkard, "Phonological Training in Reception Year," *British Journal of Curriculum and Assessment* 6 (1996).
- M. Stuart, "Getting Ready for Reading: Early Phoneme Awareness and Phonics Teaching Improves Reading and Spelling in Innercity Second Language Learners." *British Journal of Educational Psychology* 69 (1999) 587-605.
- M. Stuart, "Getting Ready for Reading: A Follow-Up Study of Inner-City Second Language Learners at the End of Key Stage 1." British Journal of Educational Psychology 74 (2004) 15-36.
- C. McGuinness, "Phono-Graphix: A New Method For Remediating Reading Problems," *Orton Annals of Dyslexia* 46 (1996).
- K. Dias and L. Juniper, "Phono-Grafix: Who Needs Additional Literacy Support. An Outline of Research in Bristol Schools." Support for Learning 12 (2002) 34-38.
- M. Wright and F. Mullan, "Dyslexia and the Phono-Graphix Reading Programme." Support for Learning 21 (2006): 77-84.
- L. Moats, "Teaching Decoding" American Educator (Spring/ Summer 1998), pp. 1-9.

- K. Sumbler, Phonological Awareness Combined with Explicit Alphabetic Coding Instruction in Kindergarten: Classroom Observations and Analysis. Doctoral Dissertation, University of Toronto, 1999.
- D. McGuinness, C. McGuinness, and J. Donohue, "Phonological Training and the Alphabet Principle: Evidence for Reciprocal Causality." *Reading Research Quarterly*. 30.4 (1995): 830-852.
- Torgeson, J. K. et al., "Preventing Reading Failure in Young Children with Phonological Processing Disabilities: Group and Individual Responses to Instruction." *Journal of Experimental Psychology* 91 (1999) 579-593.

Principle: Repeated oral reading is a proven method of improving fluency.

- D. N. Langenberg, et al., Report of the National Reading Panel.
 National Institute of Child Health and Development, 2000.
- T. V. Rasinsky, The Fluent Reader. New York: Scholastic, 2003.
- S. J. Samuels and A. E. Farstrup, *What Research Has to Say About Fluency Instruction*, International Reading Association, 2006.
- M. R. Kuhn & P. J. Schwanenflugel, "Fluency-oriented reading instruction: A merging of theory with practice" in K.A.D. Stahl
 & M. C. McKenna, eds., *Reading Research at Work*. New York: Guilford Press, 2006.
- S. J. Samuels, "Reading Fluency: Its Development and Assessment." in A. E. Farstrup and S. J. Samuels, eds., *What Research Has To Say About Reading Instruction*. Newark, Del.: International Reading Association, 2002.
- J. Hasbrouck and G. T. Tindal, "Oral Reading Fluency Norms" *The Reading Teacher* 59 (2006), 636-644.
- J. J. Pikulsky and D. J. Chard, "Fluency: Bridge Between Decoding and Comprehension." *The Reading Teacher* 58 (2005), 510-519.
- S. L. Dowhower, "Effects of Repeated Reading on Second-Grade Transitional Readers' Fluency and Comprehension." Reading Research Quarterly 22 (1987) 389-406.



The Core Knowledge Language Arts Program

Bibliography

Listening and Learning Strand Rationale

Principle: Background Knowledge is crucial for comprehension.

Relevant Research:

- E. D. Hirsch, Jr., "Culture and Literacy," *Journal of Basic Writing* 3.1 (Fall/Winter, 1980), 27-47.
- E. D. Hirsch, Jr., Cultural Literacy. Boston: Houghton Mifflin, 1987.
- E. D. Hirsch, Jr., "Building Knowledge: The Case for Bringing Content into the Language Arts Block and for a Knowledge-Rich Curriculum Core for All Children," *American Educator*, 30 (2006), 8-21, 28-29.
- E. D. Hirsch, Jr., The Knowledge Deficit. New York: Houghton Mifflin, 2006.
- D. Willingham, "How Knowledge Helps: It Speeds and Strengthens Reading Comprehension, Learning and Thinking," *American Educator* 30 (2006), 30-37.
- S. Neuman, "How We Neglect Knowledge And Why," American Educator 30 (2006), 24-27.
- H. L. Chiesi, G. J. Spilich, and J.F. Voss. "Acquisition of domainrelated information in relation to high and low domain knowledge," *Journal of Verbal Learning and Verbal Behavior* 18 (1979), 257-273.
- P. D. Pearson, J. Hansen, and C. Gordon, "The effect of background knowledge on young children's comprehension of explicit information," *Journal of Reading Behavior* 11 (1979), 201-209.
- M. Steffensen, C. Joag-dev, and R. Anderson. "A Cross-Cultural perspective on Reading Comprehension," *Reading Research Quarterly* 15.1 (1979), 203-9.
- K. C. Stevens, "The Effect of Background Knowledge on the Reading Comprehension of Ninth Graders," *Journal of Reading Behavior* 12 (1980).
- M. Y. Lipson, "Learning New Information from Text: The Role of Prior Knowledge and Reading Ability," *Journal of Reading Behavior* 14 (1982), 243-61
- S. J. Ceci and J. Liker, "Academic and nonacademic intelligence: An experimental separation," in *Practical Intelligence: Nature and Origins of Competence in the Everyday World*, ed. R. J. Sternberg and R. K. Wagner. Cambridge: Cambridge University Press, 1986.
- C. H. Walker, "Relative importance of domain knowledge and overall aptitude on acquisition of domain-related information." *Cognition and Instruction*, 4 (1987), 25-42.
- D. R. Recht and L. Leslie, "Effect of prior knowledge on good and poor reader's memory on text." *Journal of Educational Psychology* 80 (1988), 16-20.
- W. Schneider and J. Korkel, "The Knowledge Base and Text Recall: Evidence from a Short-Term Longitudinal Study" *Contemporary Educational Psychology* 14 (1989) 382-393.
- W. Schneider, et al., "Expert knowledge, general abilities and

- text processing." in W. Schneider, et al., eds., *Interactions Among Aptitudes, Strategies and Knowledge in Cognitive Performance*. New York: Springer-Verlag, 1990.
- J. E. Muir-Broaddus and D. F. Bjorklund, "Developmental and individual differences in children's memory strategies: The role of knowledge." In Schneider & Weinert, eds., *Interactions Among Aptitudes, Strategies, and Knowledge in Cognitive Performance*. New York: Springer-Verlag, 1990.
- C. L. Peterson, Background Knowledge and the Decomposition of Literacy in Skilled Adult Readers. Dissertation, University of Texas at Austin, 1993.
- P. A. Alexander, J. M. Kulikowich, and S. K. Schulze, "The influence of topic knowledge, domain knowledge, and interest on the comprehension of scientific exposition." *Learning and Individual Differences* 6 (1994), 379-397.
- B. C. Schmidt-Rinehart, "The Effects of Topic Familiarity on Second Language Listening Comprehension," *Modern Language Journal* 78.2 (1994), 179-189.
- S. Caillies, G. Denhiere, and W. Kintsch, "The effect of prior knowledge on understanding from text: evidence from primed recognition." *European Journal of Cognitive Psychology* 14.2 (2002), 267-286.

Principle: Listening comprehension and reading comprehension are closely related, but listening ability outpaces reading ability until middle school.

- T. G. Sticht, et al., *Auding and Reading: A Developmental Model*. Alexandria, VA Human Resources Research Organization, 1974.
- T. G. Sticht and J. James, "Listening and reading," in P. Pearson, ed., Handbook of Research on Reading, New York: Longmans, 1984.
- D. D. Durrell, "Listening Comprehension Versus Reading Comprehension," *Journal of Reading* 12 (1969), 455–460.
- W. Kintsch and E. Kozminsky, "Summarizing Stories After Reading and Listening," *Journal of Educational Psychology* 69.5 (1977) 491-499.
- M. E. Curtis, "Development of Components of Reading Skill," Journal of Educational Psychology 72.5 (1980), 656-669.
- G. M. Sinatra, "Convergence of Listening and Reading Processing" *Reading Research Quarterly*, 25.2 (Spring, 1990), 115-130.
- H. W. Catts, T. Hogan, and S. M. Adlof, "Developmental Changes in Reading and Reading Disabilities." *The Connections Between Language and Reading Disabilities*. Lawrence Erlbaum Associates, (2004), 25-40.

Principle: Vocabulary levels are strongly correlated with comprehension.

Relevant Research:

- F. Davis, "Fundamental Factors in Comprehension in Reading." *Psychometrika* 9 (1944) 185-190.
- R. L. Thorndike, Reading Comprehension Education in Fifteen Countries. Stockholm, Sweden: Almquist and Wiksell, 1973-4.
- R. C. Anderson and P. Freebody, "Vocabulary Knowledge," in J.T. Guthrie, ed., *Comprehension and Teaching: Research Reviews*.
 Newark, DE: International Reading Association, 1981.
- S. Stahl, Vocabulary Development. Cambridge, MA: Brookline Books, 1999.
- D. A. Saarnio, E. R. Oka, and S. G. Paris, "Predictors of Comprehension" in *Reading and Its Development: Components Skills Approaches*, ed. T. H. Carr and B. A Levy. New York: Academic Press, 1990.

Principle: Large vocabulary gaps between advantaged and disadvantaged children develop in the preschool years.

Relevant Research:

 B. Hart and T. R. Risley, Meaningful Differences in the Everyday Experience of Young American Children. Baltimore, London, Sydney: Paul H. Brookes Publishing, 1995.

Principle: Printed language contains a much richer vocabulary than oral language.

Relevant Research:

- D. P. Hayes and M. Ahrens, "Speaking and Writing: Distinct Patterns of Word Choice." *Journal of Memory and Language* 27 (1988), 572-585.
- D. P. Hayes and M. Ahrens, "Vocabulary Simplification for Children," *Journal of Child Language* 15 (1988), 395-410.
- E. Cunningham and K. E. Stanovich, "What Reading Does for the Mind," *American Educator* (Spring/Summer 1998), 2-3.

Principle: Children can acquire vocabulary from context, by listening to stories read aloud.

- A. van Kleeck, S. Stahl, E. B. Bauer, eds., On Reading Books to Children. Mahwah, NJ: Lawrence Erlbaum Associates, 2003.
- E. Hiebert and M. Kamil, eds., Teaching and Learning Vocabulary: Bringing Research to Practice. Mahwah, NJ: Lawrence Erlbaum Associates, 2005.
- M. G. McKeown and M. E. Curtis, The Nature of Vocabulary Acquisition. Mahwah, NJ: Lawrence Erlbaum Associates, 2005.
- S. Stahl, Vocabulary Development. Cambridge, MA: Brookline Books, 1999.

- W. E. Nagy, P. A. Herman and R. C. Anderson, "Learning Words from Context." Reading Research Quarterly, 20 (1985), 233-253.
- D. B. Feitelson, et al., "Effects of listening to series stories on first graders' comprehension and use of language." *Research in the Teaching of English* 20 (1986) 339-55.
- G. A. Miller and P. M. Gildea, "How Children Learn Words." *Scientific American* 257.3 (September 1987), 86-95.
- W. B. Elley, "Vocabulary acquisition from listening to stories."
 Reading Research Quarterly 24 (1988), 174-187.
- A. C. Stallman, Learning Vocabulary from Context. Dissertation, Univ of Illinois, 1991.
- S. A. Stahl, M. A. Richek, and R. J. Vandevier, R.J., "Learning meaning vocabulary through listening: A sixth-grade replication."
 In J. Zutell, S. McCormick, eds., Learner Factors/Teacher Factors: Issues in Literacy Research and Instruction. Chicago: National Reading Conference, 1991.
- D. Feitelson, et al., "Effects of Listening to Story Reading on Aspects of Literary Acquisition." *Reading Research Quarterly* 28.1 (1993), 70-79.
- C. Robbins and L. C. Ehri, "Reading storybooks to kindergartners helps them learn new vocabulary words." *Journal of Educational Psychology*, 86 (1994) 54-64.
- W. Nagy and J. Scott, "Vocabulary Processes," in M. Kamil, P. Mosenthal, P. D. Pearson, & R. Barr, eds., *Handbook of Reading Research*, Volume III. Mahwah, NJ: Erlbaum, 2000.

Why Knowledge Matters

Resources to Explain the Role of Prior Knowledge in Reading Comprehension and Critical Thinking

Videos

"Teaching Content IS Teaching Reading"

By Daniel T. Willingham, Professor of Psychology, University of Virginia http://bit.ly/1kkLC0y

"In order to understand what you're reading, you need to know something about the subject matter," notes Willingham. "And that doesn't just mean that you need to know the vocabulary—you need to have the right knowledge of the world." There is "truly a mountain of data" demonstrating that content knowledge is essential to comprehension, Willingham says.

"A Tribute to the Work of E. D. Hirsch, Jr."

By The Thomas B. Fordham Institute

http://bit.ly/1ha1uUk

Created for a special conference honoring E. D. Hirsch, Core Knowledge's founder, this video features prominent education reformers—including David Coleman, Chester E. Finn, Jr., Tom Birmingham, Kati Haycock, and Daniel Willingham—as they reveal why they support more rigorous, cumulative, knowledge-building curriculum.

"Boosting Reading Skills"

By John Merrow, Education Correspondent, PBS NewsHour

http://bit.ly/Scai04

Merrow visits three schools with different approaches to teaching reading, including P.S. 96, a school in Queens, NY, that uses Core Knowledge Language Arts.

Articles

"How Two Poems Helped Launch a School Reform Movement"

The Atlantic

By E. D. Hirsch, Jr., Professor Emeritus of Education and Humanities, University of Virginia and Founder, Core Knowledge Foundation

http://bit.ly/1tjb2MD

Hirsch explains his personal journey from university humanities professor to crusader for closing the achievement gap by changing schools' approach to reading instruction. He writes, "Decades of cognitive science research boil down to this: For understanding a text, strategies help a little, and knowledge helps a lot. I consider this the single most important scientific insight for improving American schooling that has been put forward in the past half century. But unless one is familiar with the research, it's hard to overcome the cast of mind that regards reading and writing as a set of technical skills."

"A Wealth of Words: The Key to Increasing Upward Mobility Is Expanding Vocabulary"

City Journal

By E. D. Hirsch, Jr., Professor Emeritus of Education and Humanities, University of Virginia and Founder, Core Knowledge Foundation

http://bit.ly/1be1PfX

Hirsch explains that "vocabulary size is a convenient proxy for a whole range of educational attainments and abilities—not just skill in reading, writing, listening, and speaking but also general knowledge of science, history, and the arts. If we want to reduce economic inequality in America, a good place to start is the language-arts classroom." He goes on to show how early grades schooling could become far more efficient and effective in building vocabulary, general knowledge, and literacy.

"The Curriculum Reformation: New National Standards Prod Schools to Return to Content-Based Education" City Journal

By Sol Stern, Contributing Editor, *City Journal* and Senior Fellow, Manhattan Institute http://bit.ly/1pfADsi

Stern explores research and recent school reform history to show the need for more emphasis on knowledge-building curriculum. He writes, "No matter how the debate over national standards plays out—and it may never be resolved—one undeniably positive development has resulted from all this. For the first time in almost half a century, education administrators and policymakers around the country are seriously discussing the role of a content-based curriculum in raising student achievement. And that means long-overdue recognition of the ideas of E. D. Hirsch, one of America's greatest but also most neglected education reformers."

"Proficient Reading Remains Elusive for U.S. Kids"

By Loren Heal, Reporter, Heartland Institute

http://bit.ly/1kcgBqH

This brief article offers a good summary of the research on effective reading instruction, including explaining that children "who can decode can still be functionally illiterate because they don't understand the words they decode."

"Lost in Wonderland"

By Karin Chenoweth, Writer-in-Residence, Education Trust *Huffington Post*

http://huff.to/1ioOnt6

Chenoweth notes that even though Supreme Court Justice Sonia Sotomayor worked hard enough in school to be admitted to Princeton, she still lacked essential knowledge. Chenoweth writes, "All kids should be able to rely on their schools to help them become conversant enough with important cultural, historical and scientific touchstones that by the end of 12 or 13 years in school they aren't lost when they hear about *Alice in Wonderland*, or references to Gettysburg, or read a newspaper story about a Supreme Court case or scientific breakthrough. But that kind of grounding requires schools to be very intentional about what kids need to know and be able to do and plan accordingly."

Book Excerpts

"Why Don't Students Like School? Because the Mind Is Not Designed for Thinking"

By Daniel T. Willingham, Professor of Psychology, University of Virginia *American Educator*

http://bit.ly/TQQrVK

In this excerpt from *Why Don't Students* Like *School?* Willingham explains how the mind works—and how factual knowledge boosts cognitive ability.

"Beyond Comprehension: We Have Yet to Adopt a Common Core Curriculum that Builds Knowledge Grade by Grade—But We Need To"

By E. D. Hirsch, Jr., Professor Emeritus of Education and Humanities, University of Virginia and Founder, Core Knowledge Foundation

American Educator

http://bit.lv/1oFT3Qp

In addition to an excerpt from Hirsch's *The Knowledge Deficit: Closing the Shocking Education Gap for American Children*, which explains the role that prior knowledge plays in comprehension, this document also highlights an early version of Core Knowledge Language Arts.

The Intersection of the Goals of Instruction and Language Arts Components

		•					
Language Arts	Group	CKLA	CKLA	How	Where	What	How
Instructional Goal		Block	Activity	Well	Addressed in	Activities	well
			(Primary)		Your Current Block		
Alphabetics (phonological	MG SG I	Skills	Student				
analysis, letter names,		Sednence	Workbooks	e.g., < < <			
alphabetic principle)			Whole Class	1			
Word Learning (Strategic	WG SG I	Skills	Skills Readers				
word ID. high frequency		Seguence	Student				
words)			Workbooks				
Knowledge and	1 9S 9 M		Shared				
Comprehension			Interactive				
			Reading				
			Extension				
			Activities				
Language and	1 98 9M	Listening and	Shared				
Vocabulary		Learning	Interactive				
			Reading				
			Extension				
			Activities				
Motivation and Variety of	WG SG I	Skills	Shared				
Text		Sednence	Interactive				
		and Listening	Reading Student				
		and Learning	Workbooks				
)		•			

 \checkmark = Addressed somewhat \checkmark = Addressed well \checkmark \checkmark = Addressed very well WG=Whole Group SG=Small Group I=Individual

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