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This report discusses whole language, port-aying it as a philosophy of education with three basic premises: (1) learning in school ought to incorporate what is known about learning outside of school; (2) teachers should base curricular decisions on what is known, they should possess and be driven by a vision of literacy, they should use observation to inform teaching, and they should reflect continuously; and (3) teachers as professionals are entitled to a political context that empowers them as informed decision makers. The report begins with a brief discussion of each of these premises and then surveys research that has been conducted on classrooms and practices that are consistent with a whole language philosophy. It goes on to provide annotations for 38 studies, 10 of which compare whole language with traditional instruction. (One table of data and 124 references are attached.) (Author/SR)
Toward an Understanding of Whole Language

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Abstract

Whole language is a philosophy of education with these basic premises: (a) Learning in school ought to incorporate what is known about learning outside of school; (b) Teachers should base curricular decisions on what is known, they should possess and be driven by a vision of literacy, they should use observation to inform teaching, and they should reflect continuously; (c) Teachers as professionals are entitled to a political context that empowers them as informed decision makers. This report begins with a brief discussion of each of these premises and then introduces the research that has been conducted on classrooms and practices that are consistent with a whole language philosophy. Annotations are provided for 38 studies, 10 of which compare whole language with traditional instruction.
TOWARD AN UNDERSTANDING OF WHOLE LANGUAGE

A (Very) Short History of Whole Language as a Teacher Movement

For many years, reading educators have debated about how best to teach reading. (For an excellent discussion of early reading education see Nila Banton Smith's *American Reading Instruction*, 1934, 1965). On one side, there were those who believed that reading should be "whole word" or "look say"; on the other, there were those who believed that children first needed to learn the letters of the alphabet and the sounds those letters made. The debates went back and forth over a number of decades. Some educators argued that research "proved" the superiority of one method over another; others contested those results. (For a 1990s version of this debate see Weaver in *Education Week*, March 28, 1990, and Aaron, Chall, Durkin, Goodman, and Strickland in *The Reading Teacher*, February 1990, March 1990.) Meanwhile the methods themselves ebbed and waned in popularity.

In the 1960s, the content and tenor of the debate began to change. A new branch of psychology, cognitive psychology, offered theories of comprehension. Some linguists turned their attention to how language was learned. An even newer field, psycholinguistics, emerged. Other linguists began to study language in use and called themselves sociolinguists. In this process, literacy education was redefined. Questions of pedagogy became embedded in multiple knowledge bases about language learning. The very questions that were asked reflected the way educators viewed reading and writing. Sociolinguists, for example, asked about the social and cultural cues from which children learned to "do school"; psycholinguists asked how children learned words and concepts and how they acquired complex cognitive constructs. Rather than a separate field, literacy instruction became the domain of many fields.

The naming and labeling of disciplines and the debates over pedagogy, most of which were occurring at the university level, grew increasingly complex. In the midst of this complexity, some educators, informed by the debate, began to name themselves. Some aligned themselves with "process writing"; others with "literature-based instruction." Still others called themselves "whole language" teachers. Sometimes as participants in college classes and sometimes independent of university influence, they read what was being written, talked with each other about classroom implications, and developed "practiceable theory" (Short, 1985)—ways of moving research into practice. As they experimented and tried out classroom techniques, they began developing a sense of what did and did not work in their classrooms. They shared these practices with each other informally, and occasionally formed networks and held meetings within the community. Eventually, some groups scheduled state-wide and national meetings. For example, Teachers Applying Whole Language (TAWL) groups meet at the annual conventions of the International Reading Association (IRA) and the National Council of Teachers of English (NCTE). In 1989, TAWL groups formed their own national organization, the TAWL Umbrella, which held its first national conference in St. Louis in August 1990.

Teachers also wrote about what they were learning. Articles appeared in *Language Arts*, *The Reading Teacher, Teaching K-8*, and *Teachers' Networking* as well as in many state and local publications. Teacher-authored chapters and books began to appear, for example, *In the Middle* (Atwell, 1987); *Portraits of Whole Language Classrooms* (Mills & Clyde, 1990); *Breaking Ground: Teachers Relate Reading and Writing in the Elementary School* (Hansen, Newkirk, & Graves, 1985); *Whole Language: Theory in Use* (Newman, 1985); *Finding Our Own Way* (Newman, 1990); *Transitions* (Rutman, 1988); and *What Matters*? (Stephens, 1990).

In their writing and in their dialogues, teachers from public schools and universities began to make explicit the understandings they shared among themselves and with other educators; they also began to identify differences. Ultimately, and perhaps unfortunately, some ideas, whole language for example, became reified as object. Perhaps curious about this "new" something, some educators asked what whole language was, what it looked like, whether or not it worked. Some wanted whole language defined so that it could be more easily shared, studied, and/or implemented. Others argued that whole language was not an object, a thing, or a something that could be defined. Rather, they claimed, whole language was a set of ideas, a way of thinking, an approach to schooling, to teaching, and to learning. Those who
conceptualized whole language as object became frustrated by the lack of definition. Those who conceptualized whole language as a way of thinking became frustrated by the requests for a definition.

Dialogue, discussion, and debate, made possible only by a common knowledge base, became difficult, even impossible without shared understandings. Unable reasonably to consider differences of substance, educators began arguing differences of style and of personality. Somewhere along the way, they even seemed to forget that they were united by their concern for the education of children.

This text is my response to the ongoing debate. It didn't start out that way. It began simply as a list of whole language research. However, with each study I gathered and annotated, with each request I received for the work-in-progress, I became more and more aware of the debate and of how the field was polarized. I grew increasingly concerned that we were responding more to each other than to the children we wanted to help. I began to think that if we could share an understanding about whole language (instead of fight over what it was), we might see that our similarities far outweighed our differences. From a common ground, we might be able to work with, not against, each other. Together we might make a difference in the lives of children.

There are many ways of knowing about whole language. The journal articles and books I've mentioned document one way of knowing; they give evidence of Schön's (1983) "knowledge in practice." It also is possible to know about whole language by becoming familiar with the theory and research in which it is grounded. Rhodes and Shanklin (1990) have compiled a list of this research; Stice (in preparation) is preparing an annotated bibliography. This report represents yet another way. In the first two sections of the report, I provide an overview of whole language as philosophy and as practice. In the latter two, I annotate case study and classroom-based research studies.

I hope this report helps the field move from debate to conversation. I hope it helps those who are teachers and those who are students. And, most of all, I hope it helps those who are learners.
Whole Language as Philosophy

When I first became aware of how children learned to talk, I was struck by the "wholeness" of the experience. Parents and other talkers do not separate language into parts and then teach the child, part by part, sound by sound. Rather, people use "whole" language to talk to and with children. Children, surrounded by oral language and understanding its functions (Halliday, 1975), want to participate in the discourse. They do so by inferring the rules of language and trying them out (Bowerman, 1982; Brown, 1970; Read, 1975). The "wholeness" of oral language learning includes the language itself, the function it serves, and the context within which it occurs. Oral language learning thus reveals itself as a social and historical process. A history of shared experiences, for example, makes it easier to understand the meaning of the toddler's language.

When this "whole" language perspective is applied to written language learning, similar patterns emerge. It becomes apparent that written language learning, like oral language learning, is a social, historical process that involves language and function and context. It also becomes evident that language is political; that language offers opportunity for power and control. Degree of access to language, whether oral or written, influences the functions that language serves. To constrain access is to limit knowing. Reading only fiction or only nonfiction, only worksheet pages or only directions written on the board, constrains what children can learn. Teachers are similarly constrained if they read only about theory, or only about practice, or only the directions in the teacher's manual.

"Whole" language is one means through which we come to know our world; it is the dominant means through which we share and reflect upon what it is we know. A "whole language" perspective then means understanding the "whole" context of literacy and language. It is more than an emphasis on "whole" books, or on functional uses of "whole" texts. "Whole language" is a broad lens for understanding language, learning, and culture.

A "whole language" philosophy then is also a dynamic agenda for political action. As we enter the 1990s, these beliefs drive that agenda:

1. Learning in school ought to incorporate what is known about learning outside of school.
2. Teachers should base curricular decisions on what is known, they should possess and be driven by a vision of literacy, they should use observation to inform teaching, and they should reflect continuously on themselves as teachers and learners.
3. Teachers as professionals are entitled to a political context that empowers them as informed decision makers.

What We Know About Learning Outside of School

Research from many disciplines has contributed to the knowledge base about literacy. From sociology, we have learned about cultural differences and how they impact on school. We know that misunderstandings can result when homogeneity is expected from a heterogeneous population (Delpit, 1988; Garcia, Jiménez, & Pearson, 1989; Heath, 1983). From cognitive psychology, we have discovered that individuals can only learn about those things for which they already possess some knowledge (Anderson, Spiro, & Anderson, 1978; Pearson, Hansen, & Gordon, 1979; Rumelhart & Ortony, 1977). We also know that learning involves both self-awareness and self-monitoring (Baker & Brown, 1984; Brown, 1980; Brown, Campione, & Day, 1981; Flavell, 1976). From research on critical thinking, we have found that learning is a meaning-making process that involves making, testing, and revising hypotheses (Cornbleth, 1987; Neisser, 1976; Neilsen, 1989; Siegel & Carey, 1989). From work in the fields of sociolinguistics, anthropology, and critical theory, we have learned the importance of situating language within social, cultural, and historical contexts (Apple, 1983; Bollome & Green, 1984; Everhart, 1983; Fraatz, 1987; Giroux, 1984; Poppewitz, 1987). Scholars in all of these fields have helped us understand school literacy as a socially constructed event.
Stephens

Understanding Whole Language - 6

Extensive studies of out-of-school language learning have confirmed that language learning is both a social process and a cultural process. One cannot learn language unless one interacts with already proficient language users (Vygotsky, 1962). What one learns is highly influenced by the cultural norms and expectations of one's culture (Heath, 1983; Ogbu, 1986). We also know that language learning is a rule-making process. Children imitate neither written nor oral language; rather, they infer the rules, then try them out (Brown, 1970; Read, 1975). This explains children's use of language they have never heard ("I gots two feets") nor seen ("I am 81 today").


Because of variability in these engagements, some children come to school with a great deal of knowledge about both oral and written language while others have considerably less. Those who come to school with more knowledge have a greater chance of succeeding in school than those who come with less (Johnston & Allington, 1990; Stanovich, 1986). A variety of preschool, remedial, intervention, and special education programs have been designed to address this inequity. Reading Recovery (Clay 1972), for example, is currently used in several cities in the United States as well as in New Zealand and Australia in an attempt to accelerate the reading progress of first-grade children "at-risk" for school failure.

What we know is extensive and critical and useful. Indeed, within the field of reading education there has been nearly unanimous agreement with Anderson, Hiebert, Scott, and Wilkinson's introduction to Becoming a Nation of Readers (1985), "The knowledge is now available to make worthwhile improvements in reading throughout the United States. If the practices seen in the classrooms of the best teachers in the best schools could be introduced everywhere, the improvements in reading would be dramatic" (p. 3).

Teachers as Informed Professionals

Much of what we currently know about language and learning is relatively new. Most of the information simply did not exist 20 years ago. As new information is acquired, it is shared both formally and informally through conversations, conferences, classes, inservice programs, newspapers, journal articles, and books. However, keeping current is a time-consuming task. In addition, the sharing is not evenly distributed. Some professors and teachers have more access to information than others. As a result, just as with language learners, there are some educators who come to the classroom knowing more and some knowing less than others.

How can this inequity best be addressed? Some educators believe that because building a broad knowledge base is difficult and time consuming, it is necessary to develop shortcuts. One way is to simplify or reduce the information into "practicable" form. For example, a great deal is known about learning as a social process. As a means of using some of this knowledge base to improve instruction, brief inservice sessions are sometimes scheduled on cooperative learning (Johnson & Johnson, 1979; Slavin, 1983). These training sessions outline a prescriptive structure for teaching. Because the training focuses on method rather than philosophy, however, participants are able to do cooperative learning without understanding the knowledge base upon which it is built. This means that cooperative learning can be scheduled into the school day (as one teacher noted, "We have Cooperative Learning on Friday at 1:00") without really affecting classroom contexts. Similarly, without access to the corresponding knowledge bases, it is possible to do critical thinking without helping students think critically; do literature-based reading instruction without enhancing the students' abilities either to read or to
understand literature; do process writing without developing writing fluency; do whole language without supporting language growth.

Other educators believe that simply asking, telling, or training teachers to do, is problematic. Concerned with the politics of control and particularly sensitive to the sometimes inadvertent use of knowledge to control, these educators argue that teaching, schooling, and learning can only improve if teachers have direct access to the research base (Apple, 1983; Edelsky, 1988; Shannon, 1989a, 1989b; Simon, 1987; Watson, Burke, & Harste, 1988). They also argue that teachers should be contributors to the knowledge base. Whole language educators, focusing on the contexts and uses of literacy, share this view.

There are, of course, various avenues for teachers to gain access to and be contributors to what is known. Books, journal articles, pamphlets, and newsletters written by university and public school educators, report, summarize, and/or synthesize research. (In this report see Avery, 1985; Boutwell, 1983; Church & Newman, 1985; Five, 1985; and McConaghy, 1986, for examples of contributions by public school educators). Self-study groups meet to share observations and discuss readings. Public school and university educators collaborate on research (see Allen & Carr, 1989; Allen, Michalove, West, & Shockley, 1989; Clyde, 1987; Cousins, 1988; Edelsky, Draper & Smith, 1983; Hanssen, in preparation; Michalove, 1989; Pierce, 1984; Shockley, 1989; Short, 1985; Stephens, 1986). Some public schools arrange long-term consultation arrangements with university educators who have various areas of expertise (Clarke, 1987). Still other schools work collaboratively with local universities in long-term projects designed to develop the knowledge base of both public school and university faculties (Florio-Ruane, 1986; Garcia, Stephens, Koenke, Pearson, Harris, & Jiménez, 1989).

Many of these attempts to acknowledge teacher contributions to the knowledge base, and to give teachers direct access to the knowledge base developed by others, are very recent, and we are just beginning to be able to look across projects to identify patterns. Preliminary findings, however, suggest that when public school teachers have access to and are creators of the knowledge base, when they know about language and learning and teaching and children, they make informed curricular decisions that support the learning of their students (Stephens, 1988).

Empowering Teachers to Act

In a recent study, Wendler, Samuels, and Moore (1989) looked at the reading instruction of various groups of teachers--award-winning teachers, teachers with master's degrees, and a control group. The results of this study suggest that there were no significant differences in the reading instruction provided by the three different groups of teachers. Reading instruction was not approached as if reading were the social, interpretative, meaning-making process we know it to be. In the 36 classrooms studied, the knowledge that Anderson et al. (1985) talked about was not being incorporated into instruction.

This study would suggest that neither being a "good" teacher, nor taking master's level classes in reading guarantees qualitatively different comprehension instruction. However, Wendler, Samuels, and Moore (1989) do not tell us about the knowledge base of the teachers. We do not know whether the teachers had a broad knowledge base about literacy instruction. It is possible that they did not. Perhaps more importantly, we also do not know if the political context of the schools allowed teachers to use their knowledge base to inform decision making at the classroom, building, and district level. All too often, observational studies of classrooms suggest that schools are set up so that curriculum is driven by materials and mandates, rather than by informed reflection (Durkin, 1978-79; Harste & Stephens, 1985). One teacher, for example, was told that she could not share with parents the success of the reading and writing workshop she had established for her inner-city fifth- and sixth-grade students. The school board had decided what books were to be used to teach reading and writing, and to publicize that a teacher had deviated from the board mandate would put both the teacher's and the principal's jobs at risk--in spite of the overwhelming success of the program. In addition, she was told she would have to stop teaching reading and writing and instead teach for the reading and writing test (Story, personal communication).
Unfortunately, literacy instruction has almost become synonymous with covering a set of externally mandated objectives, or a series of basal readers. From the perspective of many in the field, including whole language educators, teachers need to be able to use their knowledge to inform their decision making. Our schools and our school children can no longer afford to have critical curricular and instructional decisions made outside the classrooms. Teachers, as professionals, need an extensive knowledge base from which to make decisions, and they need contexts that enable them to act on those decisions.
Whole Language as Practice

Language creates illusions. Sometimes, the words we use cause us to think we agree when we do not. The reverse is also true: We think we disagree when, in fact, only our labels are different. This text contains annotations of research on whole language practices in the hope that descriptions will enable us to move past illusion and debate to understanding. The case studies are intended to help us see clearly the individual student, ostensibly the ultimate benefactor of all educational efforts. The descriptive classroom research allows us to revisit the classroom through the eyes of the writer. The comparative studies enable us to understand one way of doing school by juxtaposing it with another.

To locate these kinds of studies, I searched several on-line databases, explored dissertation abstracts, and skimmed the tables of contents of all major literacy journals from 1974 to 1989. I sent for papers presented at national conferences. I shared my working drafts with whole language advocates, asking them to check my bibliography against their knowledge base, so as to identify studies I might have overlooked.

Once I had located a study, I read it in its entirety and included it if (a) the study represented scholarly reflection rather than anecdotal recollection of events, and (b) the classrooms descriptions or instructional programs described in the study were consistent with whole language as philosophy. I considered these characteristics as consistent with a whole language philosophy:

1. *Children were engaged as learners.* They used language and other sign systems to make and test hypotheses, explore possibilities, reflect on what they had learned, and decide about what they wanted to learn next.

2. *Teachers were engaged as learners.* They saw themselves as professionals, read widely, and reflected often. They planned extensively, revised as necessary, and assessed continuously. Their observations, reflections, and decision making were driven by their vision of what it meant to be literate, be educated. They established environments that facilitated learning and used demonstration and response as primary teaching tools.

3. *Learning was viewed as a social process.* Transactions among teachers, students, and curriculum significantly contributed to the learning that occurred.

4. *Texts were used authentically.* Texts in use were whole, cohesive documents that served a purpose for the learner and had an audience broader than the teacher.

I then divided studies into two categories: case studies of individual children and descriptive and comparative classroom studies. The length of annotation of each study was related to the amount of information it provided (a 5-page journal article received a shorter annotation than a 200-page research report), as well as to the ease of availability of the research report. For example, many times only parts of qualitative studies are reported in journal articles. The "thick descriptions" of classroom events, essential to understanding whole language as practice, often are captured only in the original research report, many of which are dissertations and/or master's degree theses and thus difficult to obtain. I decided to provide enough information about these harder-to-obtain texts so that readers could determine which documents they wanted to peruse in their entirety.

Twenty-eight of the 38 studies focus on young children; only seven are concerned with children above the second grade. Fifteen address literacy learning of children considered to be "at-risk."

In addition to answering the specific questions raised by each researcher, these studies enable readers to envision how children learn in whole language classrooms. They report differences between learning...
in whole language and traditional classrooms and document the role of the teacher in whole language classrooms.

Understanding Learning in Whole Language Classrooms


Working with teachers during a year in which they changed their instructional strategies, Pierce (1984) and Stephens (1986) each examined student response and student growth relative to those changes. In another long-term collaborative study, Short (1985) used intertextuality as a metaphor for learning and examined how students and teachers learned from each other as well as from past, present and future texts.

Comparing Learning

The comparative studies consider how experiences in whole language classrooms compare with those in more traditional classrooms. Freppon (1988) used Burke's Reading Interview (Goodman, Watson, & Burke, 1987) to ask first-grade children about reading and readers. Children in both whole language and traditional classrooms identified themselves as "good readers." However, those in the traditional classroom said they were good readers because they knew a lot of words; children in the whole language classroom said they were good readers because they read a lot of books. In addition, Freppon noted that by year's end, more children in the whole language classroom developed an understanding of reading as a meaning-making process, reported using a greater variety of reading strategies, and were observed to do so. More children from the whole language classroom also talked of using meaning to self-monitor their reading. Freppon concluded that children in the whole language classroom were more actively involved as readers.

Stice and Bertrand (1989) found that at-risk minority children in first and second grades performed "as well or better than their matches in traditional classrooms" on the Stanford Achievement Test; made more progress on Clay's Concepts About Print (1979) test; retold longer, more complete versions of stories; had a "greater awareness of alternative (reading) strategies"; focused more on the "meaning and communicative nature of language"; and were more independent readers and writers. Stice and Bertrand also noted, "Ninety-five percent of the whole language children report 'me' when asked, 'Who do you know who is a good reader?' Only five percent of the traditional children reported themselves."

Mervar and Hiebert (1989) reported that second-grade "low-achieving students in the literature-based classroom displayed literature selection strategies similar to those of their high-achieving peers and they read extensively." Hagerty, Hiebert, and Owens (1989) noted that at the second-, fourth-, and sixth-grade levels, "students in literature-based classrooms outperformed those in skills-oriented classrooms... on comprehension measures," and that students in the literature-based classrooms were better able to "verbalize the processes and strategies of reading and writing." In addition, from fall to spring, the perceptions of children in the literature-based program shifted to emphasize the meaningful nature of reading and writing.

Understanding Teaching

Community is a consistent thread in the whole language classroom studies included in this bibliography. The teachers surround the children with literacy experiences, help them understand the usefulness of literacy, invite them to participate in literacy experiences, and support their learning through
demonstration, response, and strategic intervention. While many of the collaborative studies document this curricular process (Clyde, 1987; Cousins, 1988; Fierce, 1984; Short, 1985; Stephens, 1986), Edelsky, Draper, and Smith (1983) specifically examined curriculum making in one whole language teacher's classroom. To understand the decision-making process, they observed, interviewed, and audio and video taping the beginning of the year in Karen Smith's sixth-grade, inner-city classroom. As a result of data analysis, Edelsky and colleagues identified goals that Smith had set for her classroom (including "to get students to see opportunities everywhere for learning" and "to get students to think and take pleasure in their intellects"); rules, roles, and cues that enabled her to reach those goals, and a set of values that guided her decision making. Many of Smith's goals, rules, roles, and cues are similar to those identified as characteristics of teachers in other whole language studies: She "modeled how to be," "structured the environment and curriculum to provide cues," conversed and collaborated, and collaborated with students in order to reach her goals. However, perhaps most striking is one cue that appears to be common to all the whole language classroom research cited in this document. It also may be the most powerful and least labeled part of what Smith and other whole language teachers offer: Smith "behaved as if the desired were actual." She consistently "believed--and was observed--Behaving As If--the students were competent, sensible and well-intentioned." In describing the first day of school, for example, Edelsky and colleagues note:

"During the first three hours of school, children's timing seemed to be slightly 'out of sync' as they looked around the room and to each other for guidance. Few answered questions; none ventured opinions. Nevertheless, during the first hour when Karen Smith (Believing As If they could) gave them a copy of the same complicated time schedule she gave us, with the time blocks filled in for each day of the week, and told them to change the Tuesday 9:40-10:30 block from Directed Writing Activity to Writing Process, they rose to the occasion. Some of these poor readers glanced around quickly but then 'got hold of themselves'; all made at least some kind of mark somewhere on their copy of the schedule. Three hours later they were having conversations with the teacher, cleaning up material--unasked, wondering aloud about scientific principles, and generally making themselves 'at home' in the room.

Edelsky, Draper, and Smith concluded that "by the end of the first school day, these children (many of whom had failed two different grades already...several of whom had reputations as 'bad kids') looked like self-directed, conscientious 'good kids.'"

**Directions for Future Research**

These studies illustrate how children in whole language classrooms access what Heap (1989) refers to as "rational literacy"; the children know how to use reading and writing to learn and they choose to do so. The studies also demonstrate how in these whole language classrooms, learning language in school parallels learning language outside of school. They provide evidence that teachers in whole language classrooms are informed, empowered practitioners. There are however some "holes" in the documentation/understanding of whole language classrooms and the students and teachers who learn in them. Most of the studies cited here have been conducted in preschool, kindergarten, and first-grade environments. While there are a few studies of classrooms at other levels, we need more information about higher elementary, secondary, and special education whole language settings. Similarly, little research has been conducted on whole language classrooms at the college and university level.

Much of the research has also been broad in scope (year-long qualitative studies, for example) and, within that, focused on one or two particular aspects of the curriculum. Rowe (1986), for example, looked at the ways children made meaning and at the social nature of their learning, while Short (1985) focused on intertextuality. There are many aspects yet unexplored.

Research on whole language is clearly in its infancy--32 of the 38 studies cited here have been conducted since 1985; only one was published before 1980. Some argue that it is a field that will never see adulthood. They argue that whole language will simply die out, or that the ideas represented within a
whole language philosophy will be subsumed under similar ideas from other fields—hands-on science, community-based social studies, authentic problem solving in mathematics. Others see whole language as broadening to accompany and represent not only the demand for authentic education within content areas but also to encompass the cries for teacher empowerment, reflective practitioners, school-based management, and curricular alternatives that support the learning of children from diverse cultures. Woven into the debates are arguments about whole language as label.

However, neither the longevity nor the advisability of the label is at issue here. Indeed, issues of longevity and of label, like those of personality and rhetorical style, have made it difficult for participants in the debate even to hear, let alone understand, one another. This report, I hope, gives voice to the philosophy often ignored in the political arena of debate and to the learners all educators intended to serve. The question being addressed is simply this: What is whole language? I hope this report begins to answer that question.
Practiceable Theory: Annotations of Case Study Research


Nine teachers from one elementary school (Fowler Elementary) took a summer course on whole language with Jo Beth Allen. At the end of the course, they began to discuss the changes they intended to make the following year and ways to study the effectiveness of those changes. Based on their discussion, Allen issued an invitation to the faculty at Fowler Elementary. She would be offering an "inservice seminar on whole language, to be held at the school throughout the year." As a part of this seminar, participants would be observing and discussing children they were "worried about." Teachers interested in extending the observations into a research project could form a research team. Allen also indicated her interest in collaborating with teachers in their classrooms.

Seven teachers formed the Fowler Drive Research Team; three of them (Shockley, Michalove, and West) as collaborators with Allen. In their initial research meetings, the team identified children they were particularly worried about and selected three children to study from the classrooms of Shockley, Michalove, and West. Allen observed in each classroom one day per week. Another member of the research team, Sherie Gibney, videotaped each teacher at the beginning and middle of the year. She then viewed the tape with the teacher and interviewed the teacher about what had been taped.

In addition, teachers kept daily teaching journals in which they recorded observations about the three children. They also collected samples of children's writing and kept reading records for each child. The reading records included notes on the books children read and tapes of children's oral reading. Children were interviewed four times a year about "what they were learning as readers and writers, how they were learning, what they planned to learn next, and how they planned to learn." Additional data included pen pal letters that the children wrote to college students, test scores, transcripts of interviews with parents and other teachers, and a research journal kept by Allen.

Data analysis involved weekly meetings, narrative synthesis documents written during the year, and case study reports written after the year had ended. To prepare the case study report, members of the research team first read all the data for each child, making notes, and identifying possible issues, themes, and categories. Then they began a series of focused reading to fine-tune and check these patterns.

Allen notes that engagement and community were themes that emerged across all nine case studies: "The children that 'worried' us at the beginning of the year were often those who were either not engaging with literacy events, or children who had non-productive roles within the literate community." She adds, "engagement came for all of the 1st and 2nd grade students in our study, but at different points in the year, and through different routes...We are less certain about the three 5th grade students." Noting, however, the progress made by all children within the classroom community, Allen raises questions about the children's continuing literacy growth: "What will happen when this supportive classroom community breaks up? When children have learned to learn from a friend and that friend is no longer in the same room?"

The research team will continue to study the first and second grade children in order to address these kinds of questions.

This is a first-grade teacher's study of Lori, a child Avery describes as “average,” “anxious,” and “apprehensive” at the beginning of the year. Avery documents Lori's considerable reading and writing growth throughout the year with examples of her work and comments from interviews and journals. She also provides a description of her “learning process classroom”—including such details as lesson planning, room organization, and assessment strategies. The study suggests that Lori and her peers benefitted from this integrated approach to learning: "In mid-December the class took the Level 2 test (of the Scott-Foresman Reading Program). A score of 45 was considered passing. The range in the class was 46 to 50, and nine students, including Lori, scored a perfect 50.” Avery notes that in her previous year of teaching, she had consistently administered the test later in the year, and that scores frequently "dipped in the low 40's." On the California Achievement Test administered in May, the scores of the students ranged from the 76th to the 99th percentile. Avery notes that Lori not only scored at the 93rd percentile but had become an “avid reader,” who "had assumed responsibility for and control of her own learning process.


This case study traces the writing and reading development of a second-grade child. Bryan learned to see himself in literature and to write to a specific audience. The authors suggest that the opportunity to participate in a “richly interactive reading and writing environment,” coupled with teacher belief and extensive peer response, contributed to the child's growth as writer.


Boutwell reflects on the reciprocal nature of the reading and writing process in her classroom and reports on a case study of one of her students, a third grader. The article conveys a sense of the whole language classroom from the teacher's perspective, as well as the cognitive processes and learning strategies from the student's perspective.


This case study discusses Danny, a ninth-grade boy from a middle-class family who was having reading difficulties. The student's school history indicated that he had been in skill-oriented reading programs. In the beginning of the ninth grade, Danny participated in an instructional program that was based on a constructive model of reading. The program was designed to encourage the student to use semantic, syntactic, and graphophonemic cues. The researchers note that at the end of the first year, Danny had become a much more strategic reader, was more willing to take risks as a reader, and was more interested in choosing to read. Danny also passed all his classes and, in spite of the fact that he received no direct skill instruction, his scores on the Woodcock-Johnson test rose from 2.6 to 4.6.


This study investigates the views of students in a whole language school regarding the reading process, their own reading strategies, and the reading curriculum, including basal reader activities and literature discussion groups. Participants were identified by their teachers as readers of high, average, and low proficiency in Grades 1-5. Using miscue analysis procedures and metacognitive
reporting, participants’ metacognitive awareness is examined in light of their reading strategies.


Five, a fifth-grade teacher, examines the progress of one of her students, 11-year-old Teresa. Teresa was labeled as learning disabled and, based on data provided by test results and reports of other teachers, Five originally considered her “hopeless.” At the beginning of the year, and consistent with previous years, Teresa was scheduled to leave the regular classroom for most of the day in order to work with an aide. She returned to Five’s classroom only for art, music, and gym and to work on the worksheets assigned by the aide. This “worksheet” time corresponded with writing, social studies, and/or science in Five’s classroom. During the year, Teresa became a more active participant in these learning events. She began to find ways to stay in the room with the rest of the children. “By late Spring,” Five reports, “Teresa became much more assertive and often refused to leave the class to work with her aide.”

Five documents Teresa’s metamorphosis from a shy, unrisking, unsuccessful child to one who was proud of her writing and eager to experiment and explore. At year’s end, Teresa, a successful learner, had developed confidence in her ideas and had “learned to express those ideas through art, discussion, simulation, manipulation, reading, and writing.” Five hypothesizes: “Teresa’s aide did not allow her to take risks. There was no opportunity for experimenting and exploring. The curriculum for the learning disabled has very specific skill-oriented goals for students like Teresa. The emphasis was on what the student can not do and what he or she does not know. It does not build on prior experience or abilities. It does not engage students in different strategies for learning. The curriculum for these special children lets them be learning disabled, and perhaps keeps them disabled. ... A comprehension-centered, supportive environment seems to let Teresa be a successful learner—severely labeled perhaps, but not severely disabled. This type of environment builds on what she can do and respects her as an individual. It encourages ownership of ideas and responsibility.”


As part of a university-public school collaborative research project, Michalove studied three black children from low-income families, all second graders who had already repeated a year of school. Two of the children had behavior problems: Reggie was highly social, had trouble staying still, and became a disruptive force in the classroom; Ricky was aggressive and asocial. Lee was identified as mentally handicapped and spent two hours a day in the resource room.

Michalove documents the progress that the children made as readers and writers. She notes that Reggie learned to read, and that it was two of his classmates who taught him to do so. Initially reluctant to write, by year’s end, he was “so engaged with his writing it was hard to get him to shift gears when we had to move him to another subject.” Ricky, who came into second grade as a reader, initially lacked confidence but became a confident reader over the course of the year. As a writer, he began by sitting alone, copying from other books. Over the course of the year, he started to collaborate with other children. His confidence grew, and he began to write “about some parts of his life outside of school. He also wrote summaries, new versions and personal opinions about the books he was reading. Lee, who at the beginning of the year “hadn’t yet developed the concept that a group of letters stands for a word,” asked at the end of the year “if he could read” one of his well-learned books to his first-grade teacher’s class . . .” and wrote a note to the teacher, Ms. Williams, asking permission to do so.
Michalove concludes:

By allowing the children to use their individual strengths, they 'learned how to
learn' using all the resources available. Hopefully, their involvement in this
community will contribute to reducing risks for their continued success. It did
not provide an instant cure Lee still reads below grade level, but the progress
he made raises the question of his label of retardation. Ricky describes himself
as shy; that he will describe himself at all is a big step for him. Although
Reggie continues to struggle with reading, his image of himself as a reader is
dramatically different. Let me share with you a section of a piece of writing his
older brother wrote this fall: 'My brother named Reggie want to go to the place
called the White House to see President Bush in Washington, D.C. because he
want to read to him.'

Reading Conference, Austin, TX.

Shockley was a member of a university-public school research team that conducted case studies
on children they "worried" about. In this paper, she reports on Joseph, a first grader who already
had spent an extra year in a special-needs kindergarten. Labeled both mildly mentally
handicapped and behaviorally disordered, Joseph had been placed in Shockley's classroom after
having been removed from another first-grade classroom because of "aggressive and disruptive"
behavior.

In the context of Joseph's frequent problems with inappropriate behavior, Shockley details his
growth as a reader and writer over the course of the year. She notes for example that at the
beginning of the year "he could only write his nam... He participated in writing workshop by
writing letters, drawing pictures and telling his picture story." By February 7th, he had progressed
to writing a "patterned dialogue" story, using words he was sure he knew how to spell correctly.
He made similar progress in reading, moving through both preprimers to the point that on the
last day of class, he read to the class a page in the last story of the second primer.

Shockley notes that by year's end, Joseph no longer had "to solely rely on his tough guy image
to gain respect but (could) legitimately participate in academic endeavors." She cautions however
that "as he learns, he reduces his risks but does not erase them." Joseph continues to live in
"complex worlds of choices, models and expectations which are often in conflict with one another."

Shockley details some of those experiences: A brother who put glue on the eyes and mouth of
a hamster and then watched it walk around until it died, police coming to the house to arrest
another brother, four cousins who died because of a faulty space heater, stepbrothers who moved
in with Joseph because his father had abused them.

Making connections with a day when Joseph pulled his own tooth in the bathroom (and found
out from Shockley about the tooth fairy), Shockley concludes:

Even though he made impressive literacy leaps, it is not clear that such skills will
be enough support for life outside of Fowler Drive School, or even outside my
classroom ... How could this be enough when he was consistently confused
by input from brothers and cousins--people he really cared about and admire ...
... When he was angry one afternoon, he threatened, "I'll scratch a teacher
just like my brother do if she make me mad ...."

But perhaps most telling of all are the times when his innocence about "usual"
childhood experiences became apparent. For instance, during our trip to the
university (which Joseph referred to as a ‘white people’s place’), one of the students put a coin in the fountain and made a wish. A few days later in class, Joseph asked, “Those wishes come true at that place?” He held up a quarter for me.

The school system is granting Joseph some of his wishes. However, as citizens and educators, maybe we need to get the tooth fairy to come before we expect miracles from ourselves and our children in these complex times and worlds.


This article examines the literacy behaviors of a first-grade child across the contexts of home, school, and clinic. The assessment of the child’s learning difficulties is detailed and the value of a supportive, learning-centered environment explored. The authors suggest that such an environment contributed significantly to the child’s eventual progress as a reader and a writer.
Practiceable Theory: Annotations of Classroom Studies


As a part of the Whole Language Literacy Program in their school district, seven teachers spent a year studying the literacy development of the children in their whole language kindergartens. Allen notes that "no children were excluded from the study. There were children with identified or suspected learning problems, language delays of up to two and a half years, children who were repeating kindergarten and those with probable emotional strains . . . ." During the year, the teachers kept observation records, collected writing samples, completed questionnaires and a Types of Writing Produced form quarterly, and assessed each child's reading in September and again in May. They met each week with a university collaborator first to design the study, then to share observations and to identify patterns in the data.

Findings suggest that 95% of the children made progress as writers. The children became more conventional in their writing and also expanded the types of writing they did. Allen reports that this writing development was "not a stair-stepped sequence . . . . Rather, children became more flexible in their use of an increasing number of literacy strategies."

Allen also reports that "children improved their ability to make connections between sounds and letters in words they were reading as they learned to represent words on paper." Correlational data from this study suggest that "entry level did not determine exit level; most children made progress regardless of where they started in either reading or writing."


In this collaborative study, Allen and Carr analyze transcripts from writing sessions, written products, and interview protocols in order to understand how 21 kindergarten children (12 black and 9 Anglo) taught and learned from each other. Focusing their analysis on 106 instructional episodes, the researchers conclude that "children became better teachers, as well as better learners, over time . . . . (T)hey became better teachers in part by emulating the adult models, and in part by the way their peers responded to and thus shaped their teaching moves." Reporting on interviews with the children, Allen and Carr note that "almost all of them identified other children when asked who was helping them learn to read and write. They also recognized that they helped other children in the class . . . ." The researchers note that literacy learning in the classroom was a social activity and through interactions, children were not only learning specific literacy skills, but also how to "do school."

Within the broader study, the researchers use a case study to focus on one child's experience over the course of the year and document his growth as reader, writer, and learner.


Brabson was interested in understanding the role of anomalies in the literacy learning of special education students. She defined an anomaly as an event recognized by individuals as somehow violating the prediction that was part of their ongoing experience. Anomalies emerge when an individual knows what to predict and recognizes that something has gone wrong. Three questions guided her data collection: (a) What kinds of anomalies do special education students encounter
when participating in literacy events? (b) What strategies do they use in attempting to create meaning in these anomalous situations? (c) What are the conditions and characteristics of the environment that support the emergence of anomalous situations?

Preliminary findings suggest that continuity of experience plays an important role in the educational process. If special education students encounter anomalous events that form a disfunction between home and school experiences, school experiences are often miseducative.


Clyde spent one spring semester helping the staff at the Campus Children's Center incorporate into their program research on how children learn to read and write. The following year she and the teachers began to examine how the curriculum supported the preschool children as learners. Her study first details the collaborative curriculum building process, documenting the events through which she and the teachers developed a theoretical frame to guide decision making. Working together, the teachers (including Clyde) decided that "each literacy experience would ideally (1) be inherently social . . . , (2) offer opportunities for all language users . . . to provide demonstrations for one another . . . , (3) feature choices . . . , (4) offer participants an opportunity to shift psychological stance . . . , (5) allow the four systems of language to transact naturally . . . and, (6) have the potential to generate invitations to literacy that might extend beyond the classroom into the children's out-of-school lives." They also made the decision to be participants with the children--"to read, write, sing, dance, finger paint, build with blocks, count, clean, and anything else that the children did--right along side them."

As a part of their research efforts, Clyde and the teachers identified key language settings (mailboxes, a message board, and the children's newspaper), detailed data collection techniques and, means of self-correction, committed themselves to keeping personal diaries, to team debriefing, to providing each other with feedback on a daily basis, and to using the children as "research and curricular informants."

Using language events to illustrate their findings, Clyde's text offers insights into the learning that occurred for children, for teachers, and for the curriculum/community that evolved. Clyde emphasizes that the children in the study came to "believe that reading and writing constitute a form of social action, are intentional and involve the making and sharing of meaning . . . . These children [saw] literacy as functional, a vehicle through which they [could] explore and expand their world, a tool of getting things done." She notes that the "3- and 4-year-olds engage[d] in literacy activity as easily and naturally as they [did] any other sort of learning."

The language events, coupled with case studies of four learners, illustrate the children's use of print to negotiate their world. Clyde documents the literacy explorations of children, showing their growth as language users, highlighting the functional uses children made of print and of children's awareness both of what they knew and of what they wanted to learn next about language. The study details the process of teaching through demonstration and closely examines how children learn about written language from their teachers and each other.


Alane Lancaster is a teacher in a resource room for students identified as learning disabled or mildly mentally handicapped. At the time of the study, her district had developed and was about to implement a language arts program that "focused on having students read and write for real purposes." Patricia Cousins was a doctoral student interested in the relationship between learning, reflection, language, and curriculum in classrooms for special learners. They
collaborated for an academic year, working to implement the new curriculum and to understand the role of language in learning. This study discusses their collaboration, details both their curriculum and their research, and then focuses on students' use of language.

Cousins uses choice, interest, reflection, and participation to characterize classroom events and concludes that language use was strongly affected by the characteristics of particular events. When events "involved choice, built upon student interest, included opportunities for reflection and evaluation and involved the teacher as participant," Cousins found that the students "used language to expand their present ideas...to explore what they currently knew...used a more diverse group of strategies...[and] tried out a diversity of roles, from teacher to learner." Cousins argues that "in the more traditionally structured events the students looked like and sounded like our stereotypes of special education students—they were 'off task' and their language was typically simplistic and minimal, while in other events, they looked like and sounded like proficient language users."

Her analysis suggests that traditional structures do not provide opportunities for students to use language to learn and that, within those traditional structures, students often use language for other purposes—such as playing out the role of student or using language to bypass reading and writing. Cousins concludes that teachers and students have developed ways of interacting that work against using language to learn and suggests that altering the classroom context (in the direction of choice, interest, participation, and collaborative structures) provides opportunities for students to develop and use productive literacy behaviors.


Dahl and Purcell-Gates (1989) conducted a two-year study to understand how 36 children in three traditional, skills-based classrooms made sense of reading and writing instruction, kindergarten through grade 1. Analysis of the data from the kindergarten year (Dahl, 1988) suggests that during teacher-directed activity, learners across three sites "spent the bulk of their time following the teacher's directions. They copied letters, marked answers and replied to the teacher's questions." However, during self-sponsored activity, "learners experimented with written language...Instead of answering questions, the learners asked questions. They explored the stuff of literacy--wrote names, handled books and talked about their problems with written language."

When children's hypotheses were contrasted across sites, it "became evident [that] learner actions reflected the curriculum they were experiencing... If the curriculum led them to think of letters, they learned about letters--if it provided experience in various ways to attempt reading, that was what they learned."

Dahl and Purcell-Gates (1989) also examined hypotheses relative to the child's achievement level at the beginning of kindergarten. Results of that analysis suggest that "the high group seemed to move from interest in the functionality of written language to recognition of letters and the alphabetic principle and finally to various reading attempts... In contrast, the low group remained concerned with letters, and while they indicated some grasp of the alphabetic principle, they seemed to be interested in copying words rather than reading them."

The results of their first study revealed that while "low-SES learners entered formal schooling with extremely limited knowledge of written language," the traditional curriculum incorrectly assumed that inner city children understood the functionality of written language and thus dealt primarily with the "inner workings" of print (sound/symbol relationships, etc.) resulting in a mismatch between learner knowledge and the curriculum marked... Children became instructionally dependent."
The more recent research builds on these earlier studies in an attempt to understand how low-SES children make sense of instruction in whole language classrooms and how those hypotheses compare with the hypotheses in the skills-based classrooms studied by Dahl and Purcell-Gates (1989).


Three first-grade classrooms, labeled as skills, phonics, and whole language, were observed for seven months in order to understand the effect of instruction on reading and writing strategies. DeFord's findings suggest that children's texts reflected instruction: In the skills classroom, they wrote sentences that contained words they had encountered (*Bill can run*); in the phonics classrooms, their sentences focused on the sounds they had learned (*ihddcat*—"I had a cat"); in the whole language classrooms, they wrote stories they wanted to tell (*Iran is fighting U.S.*).


The purpose of this study was to determine if there were differences in miscue patterns between children who received beginning reading instruction that emphasized decoding and those in another program that emphasized meaning. The results of the study suggest that children taught by a meaning-oriented approach tended to make miscues that were semantically acceptable while those taught with an emphasis on decoding produced nonword miscues.


This study traced the reading and writing development of 18 children (many of whom were learning English as a second language) from kindergarten through first grade in an inner city "integrated instructional program." Dobson analyzed the children's reading and writing in order to "identify common strategies and to compare their use across the tasks." The study documents "levels of understanding . . . of print awareness," which represent "a progression toward the conventional." Dobson notes that this progression was "continuous rather than stage like" and that while "the effect was cumulative . . . there were also shifts of priority and focus." Dobson notes further that as the children developed as readers and writers, writing and reading "supported each other," and that there was a "transfer of strategies occurring in both directions."


Edelsky, Draper, and Smith point out that most studies of effective teaching are based on a skills model of teaching. Likewise, studies of the beginnings of the school year often seek to delineate what distinguishes effective from ineffective teachers, using a skills model of teaching. They suggest however that a skills model is typical, not inherent. To explore effective teaching from a whole language perspective, they investigated the opening weeks of school in an inner-city, sixth-grade classroom. They initially hypothesized that, over a period of several weeks, the students
would make gradual changes in response to the whole language approach taken by their teacher. However, they discovered that the adaptation process occurred very rapidly and that, indeed, the students seemed very different even at the end of the first day.

In order to determine how this had occurred, the researchers looked for patterns in the data and identified goals, values, rules, roles, and cues as salient characteristics. They noted that the teacher had a clear sense of what she wanted to accomplish:

1. To get students to see opportunities everywhere for learning.
2. To get students to think and take pleasure in using their intellects.
3. To help students learn to get along with and appreciate others.
4. To manage the day-to-day environment smoothly.
5. To get students to relate to and identify with the teacher.
6. To get students to be self-reliant and sure of themselves, and to trust their own judgment.

The researchers also noted that the decisions made by the teacher, Karen Smith, were guided by these goals and by a set of values. The researchers labeled these values: Respect, People are Good, Interdependence, Independence, Activity and Work, and Originality. Edelsky, Draper, and Smith identified the implicit rules of the classroom ("Do Exactly as I Say," "Use Your Head," "Do What's Effective," and "No Cop-Outs") and the roles that Smith played: Lesson Leader, Information Dispenser, Scout Leader, Consultant/Coach, Neutral Recorder, and Preacher. Smith utilized a variety of cues to communicate to the students her goals and values. "The cueing devices were: Using the Work of Others as examples, Giving directions..., Telling what not to do..., Ignoring inappropriate behavior, Reminding or checking up, Behaving as if the desired were actual, Modeling how to be, and Structuring the environment and curriculum to provide the cues."

The description of how this teacher used roles, rules, and cues to reach her goals and establish her values contrasts sharply with the research on effective teaching in a skills classroom. Edelsky, Draper, and Smith suggest that the difference occurs because most of the research on effective teaching (a) assumes a skills model and so fails to consider that to which the students are adapting, and (b) evaluates effective teaching in terms of improvement on standardized test scores.


Freppon identified four first-grade classrooms, two "literature-based" and two "skills-based." Controlling for socioeconomic status, gender, reading ability, and reading instruction, Freppon randomly selected 24 average readers and used "structured interviews... altered passages... and in-process oral reading behaviors" to access the students' beliefs and understandings about reading. The results of her study suggest that there were significant differences between the two groups and that those differences correlated with instruction. For example, when presented with semantically, syntactically, and lexically altered passages (e.g. "Wash and the boy are washing to he car rain"), 97% of the literature-based groups rejected the passages by identifying them as lacking language-like characteristics or as not being meaningful. Only 42% of the skills-based group rejected the... altered passages.

Freppon also notes that "analysis of the presentations of altered passages yielded information on an affective response from the two groups of students... Analysis... showed that 8 of the 12
literature-based students laughed (often repeatedly) or exhibited other expressions of humor .. .. Two skill-based students exhibited signs of humor." She reports one literature-based student's comments: "Well! It's easy to read but this doesn't make any sense .. (smiling playfully) did you just type this up?"

Results from interview data also suggest differences between the two groups: "92% in the literature-based group said that understanding the story or both understanding and getting the words right is more important in reading .. in the skills-based group, only 50% talked about both .. as important in reading."

Freppon notes that the two groups of children also varied in the variety of strategies they used as readers, in their self-monitoring and in their understanding of a "good reader," and in their view of themselves as readers. For example, children in the literature-based group reported using more strategies, and were observed to do so, and more often discussed using meaning to self-monitor. While children in both groups said that they were good readers, those in the literature-based groups said they were good readers because they read a lot of books and children in the skills group said they were good readers because they knew a lot of words.

Analysis of Running Records (Clay, 1973), used to identify patterns in oral reading, suggests that both groups of children had similar accuracy rates, and had nearly equal rereading behaviors. The number of times they asked for help was also similar. Freppon reports, however, that there were also differences. The skills group "attempted to sound out words more than twice as often as did the literature group," and, when attempting to sound out, the literature group did so more successfully than did the skills group (success rates of 53% and 32%, respectively). There were also differences in the use of cue systems. Thirty-four percent of the time the students in the literature group used a "balanced cuing system, which meant they used meaning, structure and visual cues in making the substitutions. The skills group used a well-integrated or balanced cuing system 8% of the time."

Freppon argues that the results of this study suggest that the "literature-based group were more actively involved as readers in the process of constructing meaning in the reading process .. (they) appeared to have understood the relationship between the parts of reading (the words and word decoding) and the purpose of the whole (to communicate meaningfully). Simply put, these children seemed to have grasped the notion that reading is a language process." She adds, "They seemed to have acquired some of their understandings about the importance of words and sounding out words without traditional, sequenced instruction in vocabulary building and phonics."

In contrast, Freppon notes that in the skills-based group, "the nature of the relationship of word-level aspects within the global, communicative purpose of reading did not seem well understood."

In her discussion, Freppon comments that "the students in the study were found to differ in significant ways which were not revealed through traditional reading assessment." She concludes that while "both development and instruction play a part in shaping children's reading schemata .. instruction appeared to be instrumental in shaping the reading schemata of young children."


This study describes the educational activities of two first-grade classrooms in order to compare the differences between whole language and basal instruction. The results suggest that children
in the whole language program learned as much about phonics and vocabulary through reading and writing as did the other group through basal based instruction.


This article examines two first-grade whole language classrooms and discusses how various groups (e.g., writers/non-writers) were guided into the learning process. The authors outline the curriculum that was in place and discuss the children's growth as readers and writers during the year.


Hagerty, Hiebert, and Owens cite NAEP findings in noting that American school children "do poorly when tasks require application or problem-solving" and suggest that classrooms that emphasize "reading and writing as constructive processes" have the potential to improve children's problem-solving abilities. To understand the influence of such instruction, they identified classrooms at the second-, fourth-, and sixth-grade levels that promoted "constructive, strategic processing." Hagerty, Hiebert, and Owens labeled these classrooms as whole language or literature based and compared them to traditional instruction. Arguing for a broader view of literacy than that accessed through standardized test scores, the researchers analyzed reading comprehension and writing assessment test data, used a modification of Burke's Reading Interview (1980) to ask students how they thought about reading and writing, and observed in the classrooms.

The results of their study suggest that, on the comprehension test, "students in the literature-based classrooms outperformed those in skills-oriented classrooms." On the writing assessment task, there were no statistically significant differences between classes, although students in the fourth- and sixth-grade whole language classrooms scored approximately one standard deviation higher than the students in the traditional classrooms. Hagerty, Hiebert, and Owens note, however, that the writing assessment emphasized structure rather than fluency, and measured ability to write on predetermined rather than self-selected topics. They suggest that measures which were more consistent with authentic uses of literacy might have resulted in differences that were consistently and statistically significant. Results from the Reading Interview "favored the literature-based students." Over the course of the year, their perceptions about the role of literacy "shifted to emphasize the meaningful nature of reading and writing." Noting that these results "suggest that children's views mirror the view of abstraction," Hagerty, Hiebert, and Owens suggest that "the relationship of these perceptions to students' futures as readers and writers is an important one for future research to consider."


Haussell spent 3 years co-teaching with Carol Porter in three junior high language arts classes. Together they developed a curriculum in which students read and wrote and talked about their reading and writing. The focus of the study is on these dialogues and on the type of meaning students made from and through their discussions.

A year-long study of eight children in Robert Wortman's whole-day kindergarten and first-grade whole language classroom examined the relationship of environmental print awareness, book handling knowledge, and metalinguistic awareness to beginning reading. Children were selected for the study if they had a beginning knowledge of print, but were not considered readers by their parents or teachers. Four of these children were identified as having a high degree of environmental print awareness and four as showing a low degree of awareness.

Data were collected throughout the year and consisted of a signs-of-the-environment and book handling task, reading interviews, audio taped reading sessions, teacher interviews, parent surveys, and monthly classroom observations.

The study details the literacy development of each of the eight children and notes that, by May, all children "were learning to deal with connected discourse and used a variety of integrated and non-integrated beginning reading strategies and transitional responses."

In reporting her results, Haussler offers these hypotheses:

1. All the children were aware of print in context. This awareness increased from September to May. Some children used environmental print to begin reading, other children choose "other avenues . . . as transitions into the reading of connected discourse."

2. The children from "middle class families were able to respond more appropriately as print became more decontextualized than were subjects from working-class families."

3. "Specific knowledge about books and book handling compared closely with the ability to effectively integrate reading strategies . . . . The subjects who became the best readers during the study demonstrated greater knowledge of: use of book, reading of print, and teacher register. Students who continued using transitional reading strategies throughout demonstrated much less knowledge of reading print in connected text and teaching register."

4. "Subjects' knowledge of the teaching register as is measured by some aspects of the book handling task relates more closely to their success in reading than does metalinguistic awareness. In other words, being able to use school register or school language in appropriate situations appears to be more related to beginning school reading than showing overt evidence of analyzing one's own language processing."

5. "Children use a variety of reading cues and strategies which are not specifically taught to them. Among these are the strategies of prediction, confirmation and correction."

6. "When five- and six-year-olds who have had experience with connected discourse attempt to read a new text, they use a number of transitional reading responses to gain meaning. These include semantic use of picture, knowledge of the structure of language [English], 'sense of story', metalinguistic awareness or metacognition and integration of some print cues . . . . When these same transitional readers attempt to read text with which they are familiar, they also employ the transitional response of holistic remembering. Holistic remembering is an integration of semantic use of pictures, children's own knowledge of language in books, and their experience with a given text. Holistic remembering is called reading-like behavior by Doake (1983) and Holdaway (1979)."

7. "Children begin to read text effectively when they integrate the three language cuing systems (semantic, syntactic and graphophonic) and knowledge of reading books, such as using picture cues, sense of story and left to right directionality."
Summarizing across the year-long study, Haussler concludes,

"Although children can learn to read without instruction, they cannot learn to read solely on their own. They learn about written language in a manner similar to which they learn to listen and speak. They learn through interaction and experience with others in their homes and communities, as is demonstrated in this study. Children who have a variety of print experiences are the most environmentally print aware. Most children with early book experiences have the most book handling knowledge and are also the best readers... Providing interactive experiences for children to read and supplying contextual supports as well as emotional support are essential for transitions into literacy."


McConaghy conducted a two-year observational study in her first-grade, literature-based classroom in order to understand how the children engaged with and responded to literature. She particularly wanted to know how young children "come to understand themselves and their world through reading and writing literature." Children's writing samples and their oral and written responses to literature were analyzed to identify patterns. The students spent a considerable amount of time choosing to read and write, and McConaghy's results suggest that they learned about reading and writing as part of that engagement. McConaghy's results further suggest that

1. "Young children... link their lives to a story in such a way that reading literature [becomes] a meaning making experience."
2. "Children often ask to hear the same story read over and over, and during the rereadings, children make comments on different parts of the story."
3. Learning occurs even when the teacher is not instructing.
4. Retellings provide the children with a different way of "knowing, understanding and savoring" stories.
5. Children frequently designed their own follow up activities.
6. Talking about the story first often helped the child "go beyond the story itself and think about his own experience."
7. Children had "a very strong desire to talk about the books and stories they were reading."
8. Not all children experienced reading and writing literature in the same way (these experiences can be categorized as literal, role-playing, and transcending the text).
9. Much of the children's writing "strongly reflected the influence of literature"; and
10. While they were writing, children learned different things about writing at different times.

McConaghy also noted that the children's experiences with literature provided them the opportunity to explore things in their world, "to engage in problem solving... to build meaning and to begin to understand some of the complexities of human nature."

Mervar and Hiebert cite Kirsch and Jungeblut (1986) in noting that there is reason to question whether "many individuals have the necessary literacy skills to be full participants in workplaces and communities where the ability to interpret, synthesize and evaluate large quantities of information is a necessity." They argue that teaching for the standardized test may have exacerbated the problem and argue that "the criteria for evaluating effective school literacy programs need to include characteristics of proficient readers that are not now part of typical assessments. To this end, they examined "the success of two literacy approaches in developing two . . . attributes of proficient readers: extensive participation in reading and literature selection strategies."

Twenty second-grade children, 10 from a literature-based classroom and 10 from a skills-oriented classroom, participated in this study. Mervar and Hiebert observed the children in class and in the library, interviewed them about their behaviors, analyzed their reading logs, and asked them to rank-order a set of books, starting with the "best" one.

The results of their study suggest that, in school, students in the literature-based program read more than the students in the traditional program. High achieving students in the literature-based program read more than three times the number of words (22,731 to 6,805) than did their counterparts in the traditional classrooms. Low achieving students in the literature-based program also read more than their peers in the traditional classroom: 8,384 to 4,643 words. There were no significant differences in the number of books the two groups read nor were there differences in the number of books children of different reading levels reported reading at home. Nor were there any "patterns for the rankings of either group" on the book-ranking task.

Differences were noted in book selection. Students in the literature-based classrooms reported more strategies for choosing texts and were also observed to use more strategies. As Mervar and Hiebert note, "The pattern of book selection for students in the skills-oriented classroom was to go to one part of the library which contained familiar books and immediately pull a book from the shelf. These books became their selection for the week. With no exceptions, all children in the literature-based classroom sampled text from one or more books before making their selections, either by reading parts of books to themselves or to another child. They also employed strategies like using the card catalog to find books on a desired topic or author."


Mills worked for two years as a teacher-researcher in a preschool/kindergarten program that was affiliated with the public school system. Her study begins with a discussion of the theoretical foundation on which the curriculum was built, moves to a description of the curriculum used, of a typical day and of the decision making process of the teachers. Within this context, Mills then explores the children's growth as readers and writers. She analyzes the literacy growth of three children and, as she does so, develops categories for writing evaluation.

Summarizing across all three case studies, Mills concludes that

1. Writing development is a transactive process that involves the refinement of many skills and strategies simultaneously.

2. Although all three children evidenced tremendous growth, their paths were diverse.
3. Strategicness led to empowerment.

4. The potential of a quality literacy activity was realized over time.

Mills then develops a framework for writing evaluation that is consistent with a process approach at the preschool/kindergarten level. She begins by listing salient characteristics of the literacy development of the children in her study and providing examples of each. She suggests that teachers "record observations and collect corresponding artifacts" and then use the categories she has developed to reflect upon the significance of those records. Mills argues that it is critical for teachers to document their reflections and use the insights gained to inform instruction. She advocates an evaluation cycle through which teachers collect data, reflect, record, evaluate, and then make "new plans and invitations" for literacy experiences.


Pierce conducted a year-long classroom-based study in order to understand the effect of teacher-researcher collaboration on teacher and classroom change. Pierce spent the initial three months as observer, seeking to understand the practices and decision making of two second-grade teachers. In the second phase, January to April, she became both facilitator and disseminator, planning, conducting, and carrying out collaborative planning sessions that focused on natural language learning. During the third phase, May, she resumed the primary role of observer. Using field notes, interviews, materials gathered on site, and Deford's Theoretical Orientation to Reading Profile, Pierce examined both teacher and student change.

Her study suggests that during the collaborative phase of the study, the teachers assumed more control of the curriculum and began to see themselves as capable decision makers. They made substantial changes in their curriculum, altered their teaching style, began to evidence an appreciation of the children's developing reading and writing skills and strategies, and revised their perspective on literacy and teaching. As the teachers made these changes, the students became more interested in and involved with reading and writing tasks. They became so enthusiastic, one of the teachers suggested that when the students were working on reading and writing, "it's like they are having art." The students also assumed greater responsibility for working independently and often chose literacy activities as things they wanted to do not only during the school day, but after school and during the summer.

Examples of student work are used to demonstrate student growth as readers and writers; both classes also showed a two-year gain on standardized achievement test scores. In addition, Pierce compared scores on end-of-year standardized tests and found that the students in these two classrooms scored above the school and district mean as well as above the mean of the students from a school with a similar population.


This year-long study compared the effects of a code emphasis approach and a whole language approach on the emergent literacy of 53 kindergarten girls. According to the author, this is the
first quantitative study of the whole language approach. The subjects of the study were from two kindergarten classes from a parochial school in the northeast.

The experimental class received instruction in Holdaway's Shared Book Experience Program (1979): (a) Welcoming activity: reading aloud of poem, chant, or song; use of enlarged material; (b) Favorite stories: rereading of stories, usually by request; unison participation; discussion of syntax; (c) Language activity: exploration of language through games, riddles, puzzles; (d) New story: introduction of new story for the day; words pointed to as they are read aloud; language experiences shared; (e) Independent reading: self selection of books to read; engagement in literary activities of choice; (f) Expression: art and writing activities; group drama.

The comparison class was instructed with a code emphasis approach using Lippincott's Beginning to Read, Write, and Listen Program.

Emergent literacy was the major dependent variable in the study. The emergent literacy factors analyzed were linguistic, orthographic, and graphophonemic literacy. "ANCOVA results revealed a significant main effect for treatment favoring the whole language group on all dependent measures." The results corroborated Holdaway's (1979) ethnographic research findings.

Ribowsky concluded that "a whole language approach was more effective than a code emphasis in fostering emergent literacy." She noted that shared book experiences strongly contributed to

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1In the same year that the Ribowsky study was published, Taylor, Blum, and Logsdon (1986) published a study that compared scores of children in classrooms that it might be possible to consider as "whole language" and "traditional." In their study, however, they refer to these classrooms as "implementing" and "nonimplementing" relative to teachers' ability to make curricular decisions consistent with training provided by the researchers. Because of this ambiguity, their study was not included in this bibliography as a "whole language study." However, I have included a brief abstract of their study so that readers can draw their own conclusions about the "whole language-ness" of the "implementing" classrooms.


Taylor, Blum, and Logsdon trained prekindergarten and kindergarten teachers in what they refer to as "a theory-based pre-reading curriculum." The training began in the summer and continued throughout the year. During this same period, members of the research team used observational data to identify "essential features of a language- and print-rich curriculum." These features included "multiple and varied stimuli for reading, multiple and varied stimuli for writing, accessible and functional display of children's language products, integrative print, routines, and child-centered activities." Based on these features, the research team members assessed classrooms of teachers-in-training to determine whether the "characteristics of the curriculum were (a) implemented very effectively, (b) implemented effectively, (c) implemented to a limited degree, or (d) not implemented."

They then assessed children from the classrooms using the Written Language Awareness Test (WLA) and the Boehm Test of Basic Concepts (Boehm). Collapsing the four teacher categories into two, implementing and nonimplementing, the researchers compared the scores of the children with the teacher ratings.

The researchers concluded that students in implementing classrooms outperformed students in nonimplementing classrooms on the total battery of the WLA and on three of the subtests: the Aural Word Boundaries Test, the Metalinguistic Interview Test and the Rye-Rhinceros Test. They also noted that "differences between groups on the fourth subtest, the Aural Consonant Cloze Task, approached significance." Students from implementing classrooms also outperformed students from nonimplementing classrooms on Level 1 of the Boehm.

The researchers also compared students' scores on the Metropolitan Readiness Test and reported that "students in implementing classrooms outperformed students in nonimplementing on two of the three subtests: the visual subtest, which measures letter recognition and visual matching...and the language subtest, which measures school language and training....There were no differences between the groups on the auditory subtest....Group differences on the total battery of MRT tests approached significance...."

Taylor, Blum, & Logsdon (1986) concluded, "Children learn best in a language- and print-rich environment, with many opportunities to observe, try out, and practice literacy skills in genuine communications situations."
emergent literacy and that "literacy development occurred along developmental pathways unique to each child."


The purpose of this ethnographic study was to explore how young children learned about literacy in the course of their usual classroom activities. Rowe proposed two research questions that allowed her to take both individual and social perspectives on literacy learning: (a) How are children's understandings and use of written language, music, and graphic/constructive embedded in the social world of their classroom? (b) How do young children explore the potentials of these communication systems? What social-psychological strategies do they use?

Rowe describes the patterns of intertextual tying made by the 21 children as they learned to communicate through writing, art, music, and presents the theoretical hypotheses she generated to describe the role of intertextuality in the literacy learning process. Rowe suggests that the construction of intertextual connections is a central part of the literacy learning process and argues that there are two general types of intertextual connections that are important in literacy learning. The first type of connection occurred when children linked their existing knowledge about literacy to the demonstrations provided by other authors. The process of mutual intertextualizing that occurred through conversation and demonstration led to the formation of shared meanings about literacy and allowed members of the same authoring community to use literacy to communicate with others.

The second type of intertextual connection reflected the mediation of children's existing texts in their literacy learning. Children interpreted their experiences by flexibly linking their current observations to multiple aspects of their past experiences creating context-specific hypotheses about literacy.


Short began her year-long classroom-based study with a dual focus on collaboration and intertextuality. As she developed curriculum with the teacher and talked about the experience with the teacher and with her colleagues, she redefined the relationship between her two goals. Rather than perceiving them as different from one another, she began to view collaboration as an intertextual process—a means of making meaning from experience. Originally defining text as a written document, she later redefined it as a "chunk of meaning that we construct from our world of experience."

In her narrative, Short argues that learners construct texts (stories) in order to make sense of experience, and that storying is therefore a useful metaphor for learning. She notes that over the course of the year, curriculum and research merged as intertextual processes which lead to "practiceable theory."

In addressing intertextuality, Short analyzes the changing understandings across all participants. She identifies patterns across the data to show how the authoring cycle became a curricular frame and how authorship extended through reading and writing into all areas of the curriculum. Short argues that curriculum became an intertextual process and documents the diversity of intertextual
ties as evidenced by the stories the children were writing and the responses they made during interviews.

In her final chapter, Short provides a graphic representation of learning as an intertextual and social process and uses examples from the data to highlight three perspectives on intertextuality: connecting with past texts, connecting with the texts of others and connecting with society's texts. Building on Pierce's work on learning, Short takes the stance that learning is a search for unity, for patterns that connect, for stories—and that it is the tension caused by anomalies, by inconsistencies, that "move the learning process forward ... to create a new unity or text."

Short suggests that "a learning theory must ... be a social theory" and that "collaboration is (not) just another variable to consider in learning ... but (rather) changes the whole nature of the learning process." Aligning herself with Vygotsky's belief that "the social world is already imbedded in thought," Short notes that "collaboration changed the nature of our social interactions with each other and ... this change in social interactions became embedded in the way we thought and learned." Exploring the characteristics of collaboration, she argues that collaboration was "essential to providing the learning environment necessary to facilitate intertextuality and the learning cycle ... What the evidence from this study points to is that whenever children or adults are given the opportunity to interact and learn with others, learning is more productive and they are able to think in more complex and divergent ways." Short notes, "in the past, educational innovators have attempted to hand classroom teachers a solution to their problems ... but as soon as teachers are left on their own, innovation dies out because they have not been given a way to take ownership of the change process themselves." She suggests that, "As educators, we need to be concerned about developing learning environments that facilitate this learning process ... Research has tended to emphasize reflexivity at the expense of action, and curriculum in schools has tended to emphasize action at the expense of reflexivity."

[See also Harste, J., & Short, K., with Burke, C. (1988). Creating classrooms for authors. Portsmouth, NH: Heinemann.]


Stephens spent a semester collaborating with Cynthia Brabson in an attempt to integrate reading and writing in Brabson's classroom for intermediate-level children labeled learning disabled. The study provides an overview of the collaborative experience, explores the process of curriculum building and details the progress that students made within an integrated language arts environment.


Stice and Bertrand cite Neisser in arguing that "the two traditional approaches to literacy instruction, i.e. phonics/skills (or the traditional/basal) approach and the decoding, sub-skills (or behavioral/mastery learning) approach have not proved successful in the case of poor minority children." In this study, they examined the effectiveness of whole language instruction for this population. Defining whole language as "a model for literacy instruction which emphasizes a collaborative learning environment for children and focuses on using language as a tool for learning," Stice and Bertrand identified 50 "at-risk" children, "averaging five each in five Whole
Language classrooms, grades one and two, and their matches from traditional/skills classrooms. The students were determined to be "at-risk" if they were eligible for the school's free lunch program and met three of these four conditions: (a) low achievement as determined by the mean scores on the Stanford Reading Achievement Test, (b) considered at risk of school failure by the classroom teacher, (c) a member of a non-intact nuclear family or (d) living in publicly subsidized housing. They were matched on age, race, sex, and stanine scores on the Stanford Reading Achievement Test.

Reading and writing products were gathered over a two-year period. In addition, Goodman, Watson, and Burke's (1987) Reading Miscue Inventory was used to analyze oral readings audiotaped twice yearly for each child, Clay's Concepts About Print (1979) survey was administered in the fall and spring of each year, and students were interviewed about their reading and writing.

Results from the SRAT suggest that "the at-risk children in the emerging whole language classrooms performed as well or better than their matches in the traditional classrooms." On the writing tasks, "the children in the whole language classrooms did as well on traditional spellings as their matches and used more invented spelling." There were no differences on quantitative measures such as number of words, number of T-units and number of sentences. Stice and Bertrand note that "the most striking finding, when examining the oral reading miscues and retelling scores for the two types of classrooms is that the retelling scores for the whole language classrooms are consistently and in many instances higher than for the traditional skills classrooms. Whole language children retold longer, more complete versions of their stories." The children in the whole language classroom initially scored lower on Clay's CAP test, but scored significantly higher on the posttest. Analyzing interview data, Stice and Bertrand conclude that "children in whole language classrooms had a greater awareness of alternative strategies for dealing with problems... appear[ed] to feel better about themselves as readers and writers, focus[ed] more on meaning and the communicative nature of language... and, fourth, whole language children appear[ed] to be developing greater independence in both reading and writing. Traditional children seem[ed] to be more dependent on the teacher if their initial strategy fails."


This report describes how writing was incorporated into a kindergarten emergent literacy program in San Antonio, Texas. Three types of connections were observed as having a powerful effect on the children's writing development: connecting writing with functional purposes, connecting writing with reading, and connecting children with other children who were experiencing success as writers.


This article discusses two first-grade classrooms that provided extensive literacy opportunities for children. In one of these classroom, the 25 children were from lower to lower-middle socioeconomic backgrounds, and all scored above the 54% on a standardized reading test administered in the spring of the first-grade year. Twenty had grade equivalent scores above 2.0; the other five scored between 1.6 and 1.9. The article uses classroom vignettes and narrative to describe the literacy experiences and successes of the children.

Willert observed her class of six-year-olds in order to identify the strategies they developed as they were learning to read and write. She had taught the children since they were two years old and stresses that she "wanted the children to learn to read eventually but was determined not to give lessons or to impose reading in any other way." At the time of the study, the children were in kindergarten. Willert concluded that "the children appeared to invent strategies to figure out or give meaning to written words" and that "the child most advanced in reading appeared to use many strategies when reading." She identified six strategies the children devised in learning to read and write as:

1. Focusing only on the first letter of the word.
2. Focusing on the configuration of the word such as length and shape.
3. Getting semantic clues from pictures and situations.
4. Looking for familiar letters and combinations of letters in the rest of the word.
5. Practicing spelling and copying words over and over again until they become known.
6. Inventing and using a phonological system to sound out the words.

Willert and Kamii note that the children made considerable progress as readers and writers, but caution that the "issue for educators is not what method produces higher test scores in the early grades. It is what kind of teaching enhances children's desire to read, to write well, to acquire more knowledge, to think critically about what they read and to communicate effectively with other people." They suggest that teaching that builds on children's intrinsic interests supports the development of children who can read and choose to do so.
References


Stice, C. (in preparation). Routes to whole language: An annotated bibliography of research and theory from which whole language is derived.


Author Note

This project was collaborative and for that I am most appreciative. Trika Smith-Burke contributed to its genesis by talking with me about how the text might be organized, what it might include, and what it might be called. Four research assistants, Rosalie Franceza and Beverly Sund from New York University, and Judy Shelton and Kathy Meyer-Reimer from the University of Illinois, helped locate studies, write preliminary annotations, and make further suggestions about text organization. Judith Newman, Richard Anderson, and David Pearson read drafts and offered suggestions about content and form. Graduate students at the Center for the Study of Reading reviewed and commented on the text as a technical report. Fran Lehr served as editor and helped me find ways to incorporate the many helpful suggestions that were offered. Several of the authors cited graciously sent copies of work in progress, papers presented, technical reports, dissertations and/or theses.

The actual document, of course, represents the sense I made of what others have done/suggested. For that reason, readers are advised to remember that the views presented are primarily my own, and that these views are not necessarily consistent with those of the individuals who advised me, otherwise contributed their time, or are cited.
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