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Reading Researchers in Search of Common Ground, Rona F. Filippo, Editor (2001)

Journal Articles


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A POSITION STATEMENT OF THE INTERNATIONAL READING ASSOCIATION

Evidence-Based Reading Instruction

What Is Evidence-Based Reading Instruction?

- reliable
- evidence-based
- reading
- instruction
- results
- best
- practice
- valid
- scientific
- systematic
- peer-reviewed
- objective
- literacy
- reading
- research
- achievement

Adopted by the Board of Directors
May 2002

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There are few instructional tasks more important than teaching children to read. The consequences of low achievement in reading are costly both to individuals and society. Low achievement in literacy correlates with high rates of school dropout, poverty, and underemployment (Snow, Burns, & Griffin, 1998; Wagner, 2000). The far-reaching effects of literacy achievement have heightened the interest of educators and noneducators alike in the teaching of reading. Policymakers, parents, administrators, and teachers seek the same end—to provide literacy instruction that is most likely to lead to high rates of achievement for all children.

As we pursue this goal, we must be mindful of the critical lesson provided by investigations of the past and of the present: There is no single instructional program or method that is effective in teaching all children to read. Rather, successful efforts to improve reading achievement emphasize identification and implementation of evidence-based practices that promote high rates of achievement when used in classrooms by teachers with diverse instructional styles with children who have diverse instructional needs and interests (Bond & Dykstra, 1967/1997; National Clearinghouse for Comprehensive School Reform, 2001).

Also, as we seek effective programs and practices, we must remain mindful of the powerful influence teachers have. Time and again, research has confirmed that regardless of the quality of a program, resource, or strategy, it is the teacher and learning situation that make the difference (Bond & Dykstra, 1967/1997). This evidence underscores the need to join practices grounded in sound and rigorous research with well-prepared and skillful teachers.

What does the term evidence-based reading instruction mean?

In its simplest form, evidence-based reading instruction means that a particular program or collection of instructional practices has a record of success. That is, there is reliable, trustworthy, and valid evidence to suggest that when the program is used with a particular group of children, the children can be expected to make adequate gains in reading achievement. Other terms that are sometimes used to convey the same idea are research-based instruction and scientifically based research.

This relatively simple concept becomes more complicated when we attempt to define the types of evidence that are reliable and trustworthy indicators of effectiveness. The central question is, What counts as evidence of success? In general, educators agree that such evidence should be as follows:

- **objective**—data that any evaluator would identify and interpret similarly
- **valid**—data that adequately represent the tasks that children need to accomplish to be successful readers
- **reliable**—data will remain essentially unchanged if collected on a different day or by a different person
- **systematic**—data that were collected according to a rigorous design of either experimentation or observation
- **refereed**—data that have been approved for publication by a panel of independent reviewers

In addition to evaluating the quality of the data by which programs or practices are judged, teachers also must examine the generalizability, or fit, of the evidence. In other words, teachers might ask if the children in their classrooms closely resemble the children from whom the evidence was collected: Are they the same age? Do they have similar language and cultural backgrounds? Do they have similar learning profiles? Teachers might also ask if the learning contexts are the same: Are class sizes and teacher–student ratios similar? Is the allocation of instructional time and resources similar? Do teachers have similar funds of knowledge? Has more than one study produced particular findings? If the answer to all of these questions is yes, then teachers might conclude that there is a good fit and that their students might be expected to make similar achievement gains with the same program or practice. If, however, the answers to some or all of these questions is no, then it is difficult to predict whether similar results might be achieved.

Research studies used to collect evidence about programs and practices may have a variety of designs. In general, studies that demonstrate effectiveness using experimental designs (studies that compare results from the program or practices of interest to results from a control group with random assignment to the groups) and quasi-experimental designs (studies that do not use random assignment to the program or comparison group, but use adequate statistical procedures to control preexisting differences) give the strongest evidence of effects of a program or practice. If, however, the answers to some or all of these questions is no, then it is difficult to predict whether similar results might be achieved.

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However, no single study ever establishes a program or practice as effective; moreover, it is the convergence of evidence from a variety of study designs that is ultimately scientifically convincing. When evaluating studies and claims of evidence, educators must not determine whether the study is quantitative or qualitative in nature, but rather if the study meets the standards of scientific research. That is, does it involve “rigorous and systematic empirical inquiry that is data-based” (Bogdan & Biklen, 1992, p. 43)?
What is the difference between evidence-based programs and evidence-based practices?

The quest to find the "best practices" for teaching reading has a long and quite unsuccessful history. Most notable among such efforts is a group of studies conducted in the mid-1960s that became known as the First-Grade Studies (Bond & Dykstra, 1967; 1997). This series of U.S. federally funded investigations examined popular approaches to teaching beginning reading. Included were examinations of basal reading, phonics, language experience, and linguistics approaches to reading instruction. The collection of 27 studies comparing different methods and materials found as many differences between and among teachers using the same approach as there were among teachers using different programs or approaches, leaving the authors unable to identify a "best" program. Instead, the results led the authors to conclude, "Children learn to read by a variety of materials and methods... No one approach is so distinctly better in all situations and respects that it should be considered the one best method and the one to be used exclusively. (Bond & Dykstra, Finding the best 436)

Indeed, many large studies have come to similar conclusions. For example, consider the recent findings related to the evaluations of Comprehensive School Reform. Once again the focus was on reading programs and methods, and the findings echo those of the First-Grade Studies, that "no models had uniformly positive effects, and no models had uniformly negative or neutral effects. In other words, no model worked in every case and every situation" (National Clearinghouse for Comprehensive School Reform, p. 21).

Despite many attempts at program studies in the years since the First-Grade Studies, and many claims of program excellence, literacy scholars (e.g., Allington, 2001; Stahl, Duffy, & Scott, 1984) indicate widespread agreement that no single program or instructional approach has been shown to work consistently when such studies have been rigorously conducted. Indeed, only the materials teachers use, attempts to identify best practices (e.g., Stahl et al., 1984). The cooperative research program in first-grade reading instruction, Reading Research Quarterly, 32, 348-427. (Original work published 1967) National Institute of Child Health and Human Development. (2000). Report of the National Reading Panel. Washington, DC: U.S. Government Printing Office. (Available http://www.nichd.nih.gov/publications/mpsmallbook.htm) Snow, C.E., Burns, M.S., & Griffin, P. (Eds.). (1998). Preventing reading difficulties in young children. Washington, DC: National Academy Press.

What resources might be useful when examining evidence to support particular programs or practices?

A list such as the one presented above provides an important starting point in the development of evidence-based reading instruction. But how might we learn more about each of these practices and the steps toward effective implementation? Rigorous, peer-reviewed, comprehensive research syntheses provide an excellent starting place for teachers, administrators, and policymakers who wish to learn more about effective teaching of reading. Such syntheses are important and useful because they are based on comprehensive and systematic reviews of many studies, and allow us to predict when, where, and how particular programs and instructional practices are likely to provide their students with high-quality instruction. That is, are the instructional practices likely to provide their students with the types of effects expected from the research results? The list of best practices in literacy presented previously may be used to frame questions that will be useful when considering whether there is a good fit between the program or approach under examination and a particular school or classroom setting. The International Reading Association recommends teachers and administrators ask the following questions when reviewing materials:

- Does this program or instructional approach provide systematic and explicit instruction in the particular strategies that have been proven to relate to high rates of achievement in reading for the children I teach?

- Does the program or instructional approach provide flexibility for use with the range of learners in the various classrooms in which it will be used? Are there assessment tools that assist teachers in identifying individual learning needs? Are there a variety of strategies and activities that are consistent with diverse learning needs?

- What does the program or instructional approach promote? Set of high- quality instructional materials that are diverse in level of difficulty, genre, format, and natural representation to meet the individual needs and interests of children with whom it will be used?

- In addition to examining the match between the instructional approach or program and the children they teach, administrators and teachers must also consider the match between the instructional approach or program and the resources available for implementation (e.g., Hayes, 1997; Richardson, 1994). Questions such as the following may help teachers and administrators assess appropriateness of resources and professional development opportunities:

- What instructional personnel will be required to effectively implement the program or instructional approach? That is, can the program be implemented by a classroom teacher alone, or will it require additional instructional personnel within or outside the classroom?

- What types of professional development will be necessary for effective implementation of the program or instructional approach?

- What adjustments to existing academic programs and practices will be necessary for effective implementation of the program or instructional approach?

References


Editorial handbooks


Research journals

American Educational Research Journal

Journal of Educational Research

Journal of Learning Disabilities

Journal of Literacy Research

Reading Psychology

Reading Research and Instruction

Reading Research Quarterly

Remedial and Special Education

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