## • References •

Adams, Gary L., and Siegfried Engelmann. 1996. *Research in Direct Instruction: 25 Years Beyond DISTAR*. Seattle: Educational Achievement Systems.

Althoff, Sarah E., Kristen J. Linde, John D. Mason, Ninja M. Nagel, and Katie A. O'Reilly. 2007. "Learning Objectives: Posting and Communicating Daily Learning Objectives to Increase Student Achievement and Motivation." ERIC Document Reproduction Service No. ED496125. Chicago: Saint Xavier University & Pearson Achievement Solutions.

American Federation of Teachers. 1999. "Building From the Best, Learning From What Works: Five Promising Remedial Reading Intervention Programs." Washington, DC: American Federation of Teachers. Accessed July 2004. http://www.aft.org/pubs-reports/downloads/teachers/remedial.pdf.

Anderson, John R., Albert T. Corbett, Kenneth R. Koedinger, and Ray Pelletier. 1995. "Cognitive Tutors: Lessons Learned." *Journal of the Learning Sciences* 4 (2): 167–207.

Anderson, Lorin W., and David R. Krathwohl, eds. 2001. *A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Outcomes*. Boston: Allyn & Bacon.

Ardovino, Joan, John Hollingsworth, and Silvia Ybarra. 2000. *Multiple Measures: Accurate Ways to Assess Student Achievement*. Thousand Oaks: Corwin.

Bailey, Lora B., Steven B. Silvern, Edna Brabham, and Margaret Ross. 2004. "The Effects of Interactive Reading Homework and Parent Involvement on Children's Inference Responses." *Early Childhood Education Journal* 32 (3): 173–8.

Baker, Scott, Russell Gersten, and Dae-Sik Lee. 2002. "A Synthesis of Empirical Research on Teaching Mathematics to Low-Achieving Students." *The Elementary School Journal* 103 (1): 51–73.

Balli, Sandra J., John F. Wedman, and David H. Demo. 1997. "Family Involvement With Middle-Grades Homework: Effects of Differential Prompting." *Journal of Experimental Education* 66(Fall): 31–48.

Bandura, Albert. 1977. *Social Learning Theory*. New York: General Learning Press.

Barkley, Elizabeth F., Patricia Cross, and Claire Howell Major. 2014. *Collaborative Learning Techniques: A Handbook for College Faculty*. San Francisco: Jossey-Bass/Wiley.

Baumann, James F., Leah A. Jones, and Nancy Seifert-Kessell. 1993. "Using Think Alouds to Enhance Children's Comprehension Monitoring Abilities." *The Reading Teacher* 47 (November): 184–93.

Bellon, Jerry, Elner Bellon, and Mary Ann Blank. 1992. *Teaching From a Research Knowledge Base: A Development and Renewal Process*. New York: Macmillan Publishing Company. 277–8.

Bessellieu, Frances B. 2000. "Direct Instruction: Its Contributions to High School Achievement." *High School Journal* (December). Accessed February 2008. http://findarticles.com/p/articles/mi\_hb139/is\_200012/ai\_n7840199.

Black, Paul, and Dylan William. 1998. "Inside the Black Box: Raising Standards Through Classroom Assessment." *Phi Delta Kappan* October.

Bloom, Benjamin Samuel, ed. 1956. *Taxonomy of Educational Objectives: The Classification of Educational Goals*. New York: Longmans, Green.

Borman, Geoffrey, Gina M. Hewes, Laura T. Overman, and Shelly Brown. 2003. "Comprehensive School Reform and Student Achievement: A Meta-Analysis." *Review of Educational Research* 73 (2): 125–230.

Bransford, John D., Ann L. Brown, and Rodney R. Cocking. 2000. *How People Learn: Brain, Mind, Experience, and School.* Washington, DC: National Academy Press.

Casteel, J. Doyle, and Robert J. Stahl. 1973. *The Social Science Observation Record: Theoretical Construct and Pilot Studies*. Gainesville: P. K. Yonge Laboratory School.

Chall, Jeanne S. 2000. The Academic Achievement Challenge: What Really Works in the Classroom? New York: Guilford Press.

Chen, Zhe, and David Klahr. 1999. "All Other Things Being Equal: Children's Acquisition of the Control of Variables Strategy." *Child Development* 70: 1098–1120.

Clark, Richard E., Paul A. Kirschner, and John Sweller. Spring 2012. "Putting Students on the Path to Learning:

The Case for Fully Guided Instruction." *American Educator* 36: 6–11.

Clarke, Shirley. 2001. *Unlocking Formative Assessment:* Practical Strategies for Enhancing Pupils' Learning in the Primary Classroom. London: Hodder & Stoughton.

Coker, H., C. W. Lorentz, and J. Coker. 1980, April 7–11. "Teacher Behavior and Student Outcomes in the Georgia Study." Paper presented at the American Educational Research Association Annual Meeting, Boston.

Cotton, Kathleen. 1988. *Classroom Questioning*. Portland: Northwest Regional Educational Laboratory.

Davey, Beth. 1983. "Think-Aloud: Modeling the Cognitive Processes of Reading Comprehension." *Journal of Reading* 27 (1): 44–7.

Delpit, Lisa. 2006. *Other People's Children: Cultural Conflict in the Classroom*. Anniversary Ed. New York: New Press.

Evans, Mary Ann, and Kenneth H. Rubin. 1979. "Hand Gestures as a Communicative Mode in School-Aged Children." *Journal of Genetic Psychology* 135 (2): 189–96.

Evertson, Carolyn M., Charles W. Anderson, Linda M. Anderson, and Jere E. Brophy. 1980. "Relationships Between Classroom Behaviors and Student Outcomes in Junior High Mathematics and English Class." *American Educational Research Journal* 17 (1): 43–60.

Evertson, Carolyn M., Edmund T. Emmer, and Jere E. Brophy. 1980. "Predictors of Effective Teaching in Junior High Mathematics Classrooms." *Journal of Research in Mathematics Education* 11 (3): 167–78.

Fisher, Douglas, and Nancy Frey. 2004. Checking for Understanding: Formative Assessment Techniques for Your Classroom, 2nd Ed. Alexandria: ASCD.

Fisher, Douglas, Nancy Frey, and Carol Rothenberg. 2008. *Content Area Conversations: How to Plan Discussion-Based Lessons for Diverse Language Learners*. Alexandria: ASCD.

Gagen, Miscese. 2007. "Directional Tracking Explained" *Right Track Reading*. Accessed December 16, 2008. http://www.righttrackreading.com/tracking.html.

Gagne, Robert. 1977. *The Conditions of Learning*. 3rd ed. New York: Holt, Rinehart, and Winston.

Gagne, Robert, and Leslie Briggs. 1979. *Principles of Instructional Design* (2nd ed.). New York: Holt, Rinehart, & Winston.

Gagne, Robert, and Marcy Perkins Driscoll. 1974. *Essentials of Learning for Instruction*. 2nd ed. Hinsdale: The Dryden Press.

Gelman, Rochel, and J. Greeno. 1989. "On the Nature of Competence." In *Knowing, Learning and Instruction*, edited by Lauren B. Resnick. Hillsdale: Lawrence Erlbaum Associates.

Gilakjani, Abas Pourhosein. 2012. "The Significance of Pronunciation in English Language Teaching." *English Language Teaching* 5 (4).

Goldenberg, Claude. 2006. "Improving Achievement for English-Learners: What the Research Tells Us." *Education Week* 25 (43): 34–6.

Goldin-Meadow, Susan, San Kim, and Melissa Singer. 1999. "What the Teacher's Hands Tell the Student's Mind About Math." *Journal of Educational* 91 (4): 720–30.

Good, Thomas L., and Douglas A. Grouws. 1979. "The Missouri Mathematics Effectiveness Project: An Experimental Study in Fourth-Grade Classrooms." *Journal of Educational Psychology* 71 (3): 355–62.

Graham, Steve. 2005. "Strategy Instruction and the Teaching of Writing: A Meta-Analysis." In *Handbook of Writing Research*, edited by Charles A. MacArthur, Steve Graham, and Jill Fitzpatrick, 187–208. New York: Guilford Press.

Hake, Richard. 1992. "Socratic Pedagogy in the Introductory Physics Laboratory." *The Physics Teacher* 30 (9): 546–52.

Hattie, John. 2009. Visible Learning: A Synthesis of Over 800 Meta-Analyses Relating to Achievement. New York: Routledge.

Hennings, Dorothy G. 1993. "On Knowing and Reading History." *Journal of Reading* 36 (5): 362–70.

Hiebert, James, and Thomas P. Carpenter. 1992. "Learning and Teaching With Understanding." In *Handbook of Research on Mathematics Teaching and Learning*, edited by Douglas A. Grouws, 65–97. New York: MacMillan.

Hollingsworth, John, and Silvia Ybarra. 2009. *Explicit Direct Instruction: The Power of the Well-Crafted, Well-Taught Lesson*. Thousand Oaks: Corwin.

Hollingsworth, John, and Silvia Ybarra.. 2013. *Explicit Direct Instruction for English Learners*. Thousand Oaks: Corwin.

House, J. Daniel. 2004. "The Effects of Homework Activities and Teaching Strategies for New Mathematics Topics on Achievement of Adolescent Students in Japan: Results From the TIMSS 1999 Assessment." *International Journal of Instructional Media* 31 (2): 199–210.

Huitt, W. (2003). Classroom instruction. *Educational Psychology Interactive*. Valdosta, GA: Valdosta State University. Retrieved from http://www.edpsycinteractive.org/topics/instruct/instruct.html

Hunter, Madeline. 1982. *Mastery Teaching*. El Segundo: Tip Publication.

Hunter, Robin. 2004. *Madeline Hunter's Mastery Teaching: Increasing Instructional Effectiveness in Elementary and Secondary Schools*. Thousand Oaks: Corwin.

Ivey, Gay. 2002. "Building Comprehension When They're Still Learning to Read the Words." In *Comprehension Instruction: Research-Based Best Practices*, edited by Cathy C. Block and Michael Pressley, 234–46. New York: Guilford Press.

Ivey, Gay, and Karen Broaddus. 2001. "'Just Plain Reading': A Survey of What Makes Students Want to Read in Middle School Classrooms." *Reading Research Quarterly* 36 (4): 350–71.

Jencks, Christopher, and Meredith Phillips. 1998. *The Black–White Test Score Gap: An Introduction*. Washington, DC: Brookings Institution.

Klahr, David, and Sharon McCoy Carver. 1988. "Cognitive Objectives in a LOGO Debugging Curriculum: Instruction, Learning, and Transfer." *Cognitive Psychology* 20 (3): 362–404.

Klahr, David, and M. Nigam. 2004. "The Equivalence of Learning Paths in Early Science Instruction: Effects of Direct Instruction and Discovery Learning." *Psychological Science* 15:661–7.

Korwin, Anthony R., and Ronald E. Jones. 1990. "Do Hands-On, Technology-Based Activities Enhance Learning by Reinforcing Cognitive Knowledge and Retention?" *Journal of Technology Education* 1 (Spring).

Kuhn, Deanna, John Black, Alla Keselman, and Danielle Kaplan. 2000. "The Development of Cognitive Skills to Support Inquire Learning." *Cognition & Instruction* 18 (4): 495–523.

Levy, Holli M. 2008. "Meeting the Needs of All Students through Differentiated Instruction: Helping Every Child Reach and Exceed Standards." *Clearing House* 81 (4).

Lumsden, L. 2000. "Student Motivation to Learn." ERIC Document Reproduction Service No. ED370200. Eugene: ERIC Clearinghouse on Educational Management.

Marzano, Robert J. 1998. *A Theory-Based Meta-Analysis of Research on Instruction*. Aurora: Mid-Continent Research for Education and Learning.

Marzano, Robert J. 2017. *The New Art and Science of Teaching*. Bloomington: Solution Tree.

Marzano, Robert J., Debra J. Pickering, and Jane E. Pollock. 2001. *Research-Based Strategies for Increasing Student Achievement*. Alexandria: Association for Supervision & Curriculum Development.

Marzano, Robert J., Debra J. Pickering, and Tammy Heflebower. 2011. *The Highly Engaged Classroom*. Bloomington: Marzano Research.

Mathes, Patricia G., Joseph K. Torgesen, Jeanine Clancy-Menchetti, Kristi Santi, Karen Nicholas, Carol Robinson, and Marcia Grek. 2003. "A Comparison of Teacher-Directed

Versus Peer-Assisted Instruction to Struggling First-Grade Readers." *The Elementary School Journal* 103 (5): 459–80.

Mayer, Richard E. 1974. "Acquisition Processes and Resilience Under Varying Testing Conditions for Structurally Different Problem-Solving Procedures." *Journal of Educational Psychology* 66 (5): 644–56.

Mayer, Richard E., Christian C. Stiehl, and James G. Greeno. 1975. "Acquisition of Understanding and Skill in Relation to Subjects' Preparation and Meaningfulness of Instruction." *Journal of Educational Psychology* 67: 331–50.

Muhammad, Anthony, and Sharroky Hollie. 2011. *The Will to Lead, The Skill to Teach: Transforming Schools at Every Level*. Bloomington: Solution Tree.

National Council of Teachers of Mathematics. 1991. *Professional Standards for Teaching Mathematics*. Reston: National Council of Teachers of Mathematics.

National Council of Teachers of Mathematics. 2000. *Principles and Standards for School Mathematics*. Reston: National Council of Teachers of Mathematics.

National Institute for Literacy. 2007. "Report of the National Institute for Literacy: What Content-Area Teachers Should Know About Adolescent Literacy." Jessup: EdPubs. http://www.nifl.gov/nifl/publications/adolescent\_literacy07.pdf.

National Institute of Child Health and Human Development. 2000. "Report of the National Reading Panel. Teaching Children to Read: An Evidence-Based Assessment of the Scientific Research Literature on Reading and Its Implications for Reading Instruction." NIH Publication No. 00–4754. Washington, DC: United States Government Printing Office.

Nokes, Jeffrey D., and Janice A. Dole. 2004. "Helping Adolescent Readers Through Explicit Strategy Instruction." In *Adolescent Literacy Research and Practice*, edited by Tamara L. Jetton and Janice A. Dole, 162–82. New York: Guilford Press.

Olshavsky, Jill E. "Reading as Problem-Solving: An Investigation of Strategies." *Reading Research Quarterly* 12, no. 4 (1976–1977): 654–74.

Opitz, Michael F., and Timothy V. Rasinski. 2008. *Goodbye Round Robin: 25 Effective Oral Reading Strategies*. Portsmouth: Heinemann.

Pearson, P. D., and Janice A. Dole. 1987. "Explicit Comprehension in Instruction: A Review of Research and New Conceptualization of Instruction." *Elementary School Journal* 88 (2): 151–65.

Pearson, P. David, and Margaret C. Gallagher. 1983. "The Instruction of Reading Comprehension." *Contemporary Educational Psychology* 8 (3): 317–44.

Policy Studies Associates. 1995. Raising the Educational Achievement of Secondary School Students: An Idea Book. Vol. 1. Summary of Promising Practices. Washington, DC: U.S. Department of Education. Accessed February 14, 2008. http://www.ed.gov/pubs/Raising/v011.

Rao, Sumangala P., and Stephen E. Dicarlo. 2000. "Peer Instruction Improves Performance on Quizzes." *Advanced Physiology Education* 24 (December): 51–5.

Response to Intervention Network. 1999. "What is RTI?" New York, NY: RTI Action Network. Accessed January 2017. http://www.rtinetwork.org/learn/what/whatisrti.

Rittle-Johnson, Bethany. 2006. "Promoting Transfer: Effects of Self-Explanation and Direct Instruction." *Child Development* 77 (1): 1–15.

Robertson, William C. 2008. "Teaching Conceptual Understanding to Promote Students' Ability to Do Transfer Problems." *Research Matters to the Science Teacher*. Reston: National Association for Research in Science Teaching.

Rosenshine, Barak. 1995. "Advances in Research on Instruction." *Journal of Educational Research* 88 (5): 262–8.

Rosenshine, Barak, and Carla Meister. 1992. "The Use of Scaffolds for Teaching Higher-Learning Cognitive Strategies." *Educational Leadership* 49 (7): 26–33.

Rosenshine, Barak, and R. Stevens. 1986. "Teaching Functions." In *Handbook of Research on Teaching*, 3rd ed., edited by M. C. Wittrock, 376–91. New York: MacMillan.

Rowe, Mary Budd. 1972. "Wait-Time and Rewards as Instructional Variables, Their Influence on Language, Logic, and Fate Control." Paper presented at the National Association for Research in Science Teaching. Chicago, Illinois. April.

Rowe, Mary Budd. 1986. "Wait Time: Slowing Down May Be a Way of Speeding Up." *Journal of Teacher Education* 37: 43–50.

Sanders, Norris M. 1966. *Classroom Questions: What Kinds*. New York: Harper & Row.

Shanahan, Timothy. 2004. "Overcoming the Dominance of Communication: Writing to Think and Learn." In *Adolescent Literacy Research and Practice*, edited by Tamara L. Jetton and Janice A. Dole, 59–74. New York: Guilford Press.

Shaywitz, Sally E., Jack M. Fletcher, John M. Holahan, Abigail E. Shneider, Karen E. Marchione, Karla K. Stuebing, David J. Francis, Kenneth R. Pugh, and Bennett A. Shaywitz. 1999. "Persistence of Dyslexia: The Connecticut Longitudinal Study at Adolescence." *Pediatrics* 104 (6): 1351–9.

Singh, Kusum, Monique Granville, and Sandra Dika. 2002. "Mathematics and Science Achievement: Effects of Motivation, Interest, and Academic Engagement." *Journal of Educational Research* 95 (6): 323–32.

Skinner, Ellen A., and Michael J. Belmont. 1993. "Motivation in the Classroom: Reciprocal Effects of Teacher Behavior and Student Engagement Across the School Year." *Journal of Educational Psychology* 85 (4): 571–81.

Slavin, Robert E. 2014. *Educational Psychology: Theory and Practice*. Anniversary ed. Boston: Allyn and Bacon.

Snow, Catherine E., M. Susan Burns, and Peg Griffin, eds. 1998. *Preventing Reading Difficulties in Young Children*. Washington, DC: National Academies Press.

Sousa, David. 2011. *How the Brain Learns*. 4th ed. Thousand Oaks: Corwin.

Spires, Hiller A., Joan Gallini, and Jan Riggsbee. 1992. "Effects of Schema-Based and Text Structure-Based Cues on Expository Prose Comprehension in Fourth Graders." *Journal of Experimental Education* 60 (4): 307–20.

Stahl, Robert J. 1990. *Using "Think-Time" Behaviors to Promote Students' Information Processing, Learning, and On-Task Participation: An Instructional Module.* Tempe: Arizona State University.

Stallings, Jane A. 1974. *Follow-Through Classroom Observation 1972–1973—Executive Summary*. Menlo Park, CA: SRI International.

Stallings, Jane, et al. 1978. Early Childhood Education Classroom Evaluation. Menlo Park, CA: SRI International.

Stallings, Jane, et al. 1979. How to Change the Process of Teaching Basic Reading Skills in Secondary Schools. Menlo Park, CA: SRI International.

Swan, Malcom. 1990. "Becoming Numerate: Developing Conceptual Structures." In *Being Numerate: What Counts?* edited by Sue Willis, 44–71. Melbourne: Australian Council for Educational Research.

Tobin, Kenneth. 1987. "The Role of Wait Time in Higher Cognitive Level Learning." *Review of Educational Research* 57 (Spring): 69–95.

Trautwein, Ulrich, Olaf Köller, Bernhard Schmitz, and Jürgen Baumert. 2002. "Do Homework Assignments Enhance Achievement? A Multilevel Analysis in Seventh-Grade Mathematics." *Contemporary Educational Psychology* 27 (1): 26–50.

Twyman, Todd, Jennifer McCleery, and Gerald Tindal. 2006. "Using Concepts to Frame History Content." *Journal of Experimental Education* 74 (4): 331–49.

Van Voorhis, F. L. 2003. "Interactive Homework in Middle School: Effects on Family Involvement and Science Achievement." *Journal of Educational Research* 96 (6): 323–38.

von Glasersfeld, Eric. 1996. *Radical Constructivism in Mathematics Education*. Netherlands: Kluwer Academic Publishers. xiii–xx.

Vosniadou, Stella, Christos Ioannides, Aggeliki Dimitrakopoulou, and Efi Papademetriou. 2001. "Designing Learning Environments to Promote Conceptual Change in Science." *Learning and Instruction* 11 (4–5): 381–419.

Walberg, Herbert J., Rosanne A. Paschal, and Thomas Weinstein. 1985. "Homework's Powerful Effects on Learning." *Educational Leadership* 42 (7): 76–79.

Walkerdine, Valerie. 1998. Counting Girls Out: Girls and Mathematics. London: Falmer Press.

Watkins, Cathy L., and Timothy A. Slocum. 2004. "The Components of Direct Instruction." In *Introduction to Direct Instruction*, edited by Nancy E. Marchand-Martella, Timothy A. Slocum, and Ronald C. Martella, 28–65. Boston: Allyn and Bacon.

Wigdor, Alexandra K. 1999. "Is What We Don't Know Hurting Our Children." Testimony Before the House of Representatives Subcommittee on Basic Research, Committee on Science, Hearing on Education Research, October 26. Accessed February 2008. http://www7.nationalacademies.org/ocga/testimony/Education\_Research.as.

Willingham, Daniel T. 2006. "The Content's Best Modality Is Key." *Reading Rockets*. Accessed February 2008. http://www.readingrockets.org/article/12447.

Wolfe, Pat. 1998. "How the Brain Learns." *Educational Leadership* 56 (3): 61–64.

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