

National Center for Education Research

Projects and Programs

2002-2008



In 2002, we began with three research grant competitions – one focused on reading instruction, one on preschool curricula, and one on student learning from a cognitive science perspective. These competitions resulted in a total of 24 research grants. Since that auspicious beginning, the grant competitions sponsored by the National Center for Education Research (NCER) have experienced tremendous growth. Since 2002, we have supported more than 265 education research grants that range from the development of a board game designed to improve preschool children's ability to estimate numerical magnitude – a skill that turns out to be related to arithmetic skill and conceptual understanding of computational procedures – to a large scale randomized field trial to evaluate the effects of school choice on student achievement. In addition to funding education research in reading, writing, mathematics, and science; teacher quality; education leadership; education policy, finance, and systems; high school reform; postsecondary education; preschool curricula; early childhood programs and policies; social and character development interventions; social and behavioral context for academic learning; cognition and student learning; and education technology, NCER currently supports 13 predoctoral and 17 postdoctoral research training programs in the education sciences, and 13 Education Research and Development Centers.

I am proud of the work that is being accomplished by NCER researchers. This booklet is a compilation of the research grants and contracts and the training grants that NCER has awarded since our first year. The projects listed represent a new generation of education research – research that is rigorous, relevant, and intended to improve the quality of education in the United States.

Lynn Okagaki
Commissioner for Education Research

CONTENTS

Cognition and Student Learning.....	1
Early Childhood Programs and Policies.....	13
Education Leadership.....	14
Education Policy, Finance, and Systems.....	15
Education Technology	18
Interventions for Struggling Adolescent and Adult Readers.....	20
Mathematics and Science Education.....	21
Middle and High School Reform.....	29
National Research and Development Centers.....	31
Postdoctoral Research Training Program.....	33
Predocctoral Research Training Program.....	36
Preschool Curriculum Evaluation Research.....	38
Postsecondary Education	40
Reading and Writing.....	42
Social and Behavioral Context for Learning	52
Social and Character Development.....	53
Teacher Quality: Mathematics and Science Education.....	54
Teacher Quality: Reading and Writing.....	58
Unsolicited and Other Awards.....	63

COGNITION AND STUDENT LEARNING

FY 2008 AWARDS

- **Name of Institution:** University of Illinois at Urbana-Champaign
Principal Investigator: Richard Anderson
Goal: Efficacy and Replication
Title: *Mindful Instruction of Nonmainstream Children*

- **Name of Institution:** Kent State University
Principal Investigator: Katherine Rawson
Co-Principal Investigator: John Dunlosky
Goal: Development
Title: *Developing the Retrieval-Monitoring-Feedback (RMF) Method for Improving the Durability and Efficiency of Student Learning*

- **Name of Institution:** Teachers College, Columbia University
Principal Investigator: Deanna Kuhn
Goal: Development
Title: *Extension of an Argument Curriculum to an Academically Disadvantaged Middle-School Population*

- **Name of Institution:** Michigan State University
Principal Investigator: Kelly Mix
Co-Principal Investigator: Linda Smith (Indiana University)
Goal: Development
Title: *Making Sense of Concrete Models for Mathematics*

- **Name of Institution:** Vanderbilt University
Principal Investigator: Laura Novick
Co-Principal Investigators: Kefyn Catley (Western Carolina University)
Goal: Development
Title: *A Cognitive Approach to Implementing Tree Thinking in High School and College Biology Curricula*

- **Name of Institution:** University of Wisconsin-Madison
Principal Investigator: Sadhana Puntambekar
Co-Principal Investigators: N. Hari Narayanan (Auburn University), Roland Hubscher (Bentley College), Nobel Sanjay Rebello (Kansas State University)
Goal: Development
Title: *Scaffolding Students' Use of Multiple Representations for Science Learning*

- **Name of Institution:** Northwestern University
Principal Investigator: Lance Rips
Goal: Identification
Title: *The Organization of Mathematical Knowledge*

- **Name of Institution:** Fordham University
Principal Investigator: William B. Whitten, II
Co-Principal Investigators: Mitchell Rabinowitz
Goal: Development
Title: *Guided Cognition for Unsupervised Learning of Mathematics*

- **Name of Institution:** University of Texas Health Science Center at Houston
Principal Investigator: Jason Anthony
Co-Principal Investigators: Carolyn Denton, Paul Swank
Goal: Efficacy and Replication
Title: *Efficacy of Earobics Step 1 in English Language Learners and Low SES Minority Children*

- **Name of Institution:** Boston College
Principal Investigator: Michael Russell
Co-Principal Investigators: Jessica Masters (Boston College), Mark Driscoll (Education Development Center), Rachel Wing (Education Development Center)
Goal: Measurement
Title: *The Diagnostic Geometry Assessment Project*

- **Name of Institution:** Carnegie Mellon University
Principal Investigator: Robert Siegler
Co-Principal Investigator: Geetha Ramani (University of Maryland)
Goal: Development
Title: *Improving Children's Numerical Understanding*

FY 2007 AWARDS

- **Name of Institution:** Boise State University
Principal Investigator: Keith Thiede
Co-Principal Investigators: Jonathan Brendefur, Jennifer Wiley, Thomas Griffin (University of Illinois at Chicago)
Goal: Development
Title: *Improving Metacomprehension and Self-Regulated Learning From Scientific Texts*

- **Name of Institution:** George Mason University
Principal Investigator: Robert Pasnak
Co-Principal Investigator: Julie Kidd
Goal: Efficacy and Replication
Title: *An Economical Improvement in Literacy and Numeracy*

- **Name of Institution:** Carnegie Mellon University
Principal Investigator: David Mostow
Co-Principal Investigators: Albert Corbett, Mosur Ravishankar
Goal: Development
Title: *Explicit Comprehension Instruction in an Automated Reading Tutor that Listens*

- **Name of Institution:** Carnegie Mellon University
Principal Investigator: Philip Pavlik
Co-Principal Investigator: Kenneth Koedinger
Goal: Development
Title: *Bridging the Bridge to Algebra: Measuring and Optimizing the Influence of Prerequisite Skills on a Pre-Algebra Curriculum*

- **Name of Institution:** Northern Illinois University
Principal Investigator: Keith Millis
Co-Principal Investigators: M. Anne Britt, Katja Weimer-Hastings, Joseph Magliano, Art Graesser (University of Memphis), Diane Halpern (Claremont McKenna College)
Goal: Development
Title: *Acquiring Research Investigative and Evaluative Skills (ARIES) for Scientific Inquiry*
- **Name of Institution:** Ohio State University
Principal Investigator: Vladimir Sloutsky
Co-Principal Investigator: Jennifer Kaminski
Goal: Development
Title: *The Role of External Representations in Learning and Transfer of Mathematical Knowledge*
- **Name of Institution:** University of California, San Diego
Principal Investigator: Hal Pashler
Co-Principal Investigator: Doug Rohrer (University of South Florida)
Goal: Development
Title: *Harnessing Retrieval Practice to Enhance Learning in Diverse Domains*
- **Name of Institution:** Boulder Language Technologies
Principal Investigator: Wayne Ward
Co-Principal Investigators: Ronald Cole, Sarel Van Vuuren, Barbara Wise (University of Colorado at Boulder)
Goal: Development
Title: *Improving Science Learning Through Tutorial Dialogs*
- **Name of Institution:** University of Illinois at Urbana-Champaign
Principal Investigator: Brian Ross
Co-Principal Investigators: Jose Mestre, Timothy Nokes (University of Pittsburgh)
Goal: Development
Title: *Conceptual Analysis and Student Learning in Physics*

• **Name of Institution:** University of Notre Dame
Principal Investigator: Nicole McNeil
Goal: Development
Title: *Arithmetic Practice that Promotes Conceptual Understanding and Computational Fluency*

• **Name of Institution:** University of Oregon
Principal Investigator: Helen Neville
Goal: Development
Title: *Training Attention in Preschool: Effects on Neurocognitive Functions and School Performance*

FY 2006 AWARDS

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: David Klahr
Co-Principal Investigator: Junlei Li (University of Pittsburgh)
Goal: Development
Title: *Training in Experimental Design: Developing Scalable and Adaptive Computer-Based Science Instruction*

• **Name of Institution:** City University of New York
Principal Investigator: Barry Zimmerman
Co-Principal Investigators: Bert Flugman, John Hudesman
Goal: Development
Title: *Enhancing Self-Reflection and Mathematics Achievement of At-Risk Students at an Urban Technical College: A Self-Regulated Learning Intervention*

• **Name of Institution:** Columbia University
Principal Investigator: Janet Metcalfe
Co-Principal Investigator: Lisa Son (Barnard College)
Goal: Development
Title: *The Effect of Metacognition on Children's Control of Their Study and of Their Cognitive Processes*

• **Name of Institution:** University of California, Los Angeles
Principal Investigator: Philip Kellman
Co-Principal Investigator: Christine Massey (University of Pennsylvania)
Goal: Development
Title: *Integrating Conceptual Foundations in Mathematics Through the Application of Principles of Perceptual Learning*

• **Name of Institution:** University of Kentucky
Principal Investigator: Elizabeth Lorch
Goal: Development
Title: *Teaching the Logic of the Scientific Method in the Fourth Grade*

• **Name of Institution:** University of Washington
Principal Investigator: Deborah McCutchen
Goal: Development
Title: *Making Meaning: Morphological Processing and Its Contribution to Adolescent and Pre-Adolescent Literacy*

• **Name of Institution:** University of Wisconsin-Madison
Principal Investigator: Martha Alibali
Co-Principal Investigators: Eric Knuth, Mitchell Nathan, R. Breckinridge Church (Northeastern Illinois University)
Goal: Development
Title: *Does Visual Scaffolding Facilitate Students' Mathematics Learning? Evidence From Early Algebra*

• **Name of Institution:** Vanderbilt University
Principal Investigator: Gautam Biswas
Co-Principal Investigators: Kefyn Catley, Dan Schwartz (Stanford University)
Goal: Development
Title: *A Learning by Teaching Approach to Help Students Develop Self-Regulatory Learning Skills in Middle School Science Classrooms*

- **Name of Institution:** University of North Carolina at Chapel Hill
Principal Investigator: Stephen Hooper
Co-Principal Investigator: Nathan Vandergrift
Goal: Efficacy and Replication
Title: *Attention, Memory, and Executive Functions in Written Language Expression in Elementary School Children*

- **Name of Institution:** Washington University in St. Louis
Principal Investigator: Henry Roediger, III
Co-Principal Investigators: Mark McDaniel, Kathleen McDermott, Gordon Hodge (University of New Mexico)
Goal: Efficacy and Replication
Title: *Test-Enhanced Learning in the Classroom*

FY 2005 AWARDS

- **Name of Institution:** Fordham University
Principal Investigator: William Whitten, II
Co-Principal Investigator: Mitchell Rabinowitz
Goal: Development
Title: *Guided Cognition of Unsupervised Learning*

- **Name of Institution:** Indiana University
Principal Investigator: Robert Goldstone
Co-Principal Investigator: Linda Smith
Goal: Development
Title: *Grounded and Transferable Knowledge of Complex Systems Using Computer Simulations*

- **Name of Institution:** Kent State University
Principal Investigators: John Dunlosky, Katherine Rawson
Goal: Development
Title: *Supporting Efficient and Durable Student Learning*

- **Name of Institution:** Harvard University
Principal Investigator: Jon Star
Co-Principal Investigator: Bethany Rittle-Johnson (Vanderbilt University)
Goal: Development
Title: *Using Contrasting Examples to Support Procedural Flexibility and Conceptual Understanding in Mathematics*
- **Name of Institution:** Northwestern University
Principal Investigator: David Uttal
Co-Principal Investigator: Judy DeLoache (University of Virginia)
Goal: Development
Title: *Understanding and Facilitating Symbolic Learning*
- **Name of Institution:** Ohio State University
Principal Investigator: Andrew Heckler
Goal: Development
Title: *Scientific Misconceptions: From Cognitive Underpinning to Educational Treatment*
- **Name of Institution:** University of Chicago
Principal Investigator: Sian Beilock
Goal: Development
Title: *Improving the Assessment Capability of Standardized Tests: How High-Stakes Testing Environments Compromise Performance*
- **Name of Institution:** University of Memphis
Principal Investigator: Barry Gholson
Co-Principal Investigators: Arthur Graesser, Wali Abdi
Goal: Development
Title: *An Implementation of Vicarious Learning With Deep-Level Reasoning Questions in Middle School and High School Classrooms*
- **Name of Institution:** University of Southern California
Principal Investigator: Carole Beal
Goal: Development
Title: *Dynamically Modifying the Learning Trajectories of Novices With Pedagogical Agents*

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: Robert Siegler
Goal: Development
Title: *Improving Children's Pure Numerical Estimation*

• **Name of Institution:** Northern Illinois University
Principal Investigator: M. Anne Britt
Co-Principal Investigators: Christopher Wolfe (Miami University of Ohio), Peter Wiemer-Hastings (DePaul University)
Goal: Development
Title: *Creating a Usable Environment to Teach Argument Comprehension and Production Skills*

• **Name of Institution:** Duke University
Principal Investigator: David Rabiner
Goal: Efficacy and Replication
Title: *A Randomized Trial of Two Promising Interventions for Students With Attention Problems*

FY 2004 AWARDS

• **Name of Institution:** Florida State University
Principal Investigator: Carol Connor
Co-Principal Investigator: Fred Morrison (University of Michigan)
Goal: Development
Title: *Child Instruction Interactions in Early Reading: Examining Causal Effects of Individualized Instruction*

• **Name of Institution:** University of California, San Diego
Principal Investigator: Harold Pashler
Goal: Development
Title: *Optimizing Resistance to Forgetting*

• **Name of Institution:** University of Wisconsin-Madison
Principal Investigator: Brian Bottge
Goal: Development
Title: *Advancing the Math Skills of Low-Achieving Adolescents in Technology-Rich Learning Environments*

• **Name of Institution:** Boston College
Principal Investigator: Michael Russell
Co-Principal Investigator: Joan Lucariello
Goal: Measurement
Title: *Bridging the Gap: Applying Algebra Cognition Research to Develop and Validate Diagnostic Classroom Algebra Testlets*

FY 2003 AWARDS

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: John Anderson
Title: *The Neural Markers of Effective Learning*

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: David Klahr
Title: *From Cognitive Models of Reasoning to Lesson Plans for Inquiry* (2003-2007)

• **Name of Institution:** Columbia University
Principal Investigator: Janet Metcalfe
Title: *Study Enhancement Based on Principles of Cognitive Science* (2003-2007)

• **Name of Institution:** George Mason University
Principal Investigator: Robert Pasnak
Title: *Increasing Learning by Promoting Early Abstract Thought* (2003-2006)

• **Name of Institution:** University of California, Los Angeles
Principal Investigator: Keith Holyoak
Title: *A Multidisciplinary Study of Analogical Transfer in Children's Mathematical Learning* (2003-2006)

• **Name of Institution:** University of Illinois at Chicago
Principal Investigator: Jennifer Wiley
Co-Principal Investigator: Keith Thiede
Title: *Improving Monitoring Accuracy Improves Learning From Text* (2003-2007)

• **Name of Institution:** University of Maryland, College Park
Principal Investigator: Thomas Wallsten
Title: *Computer-Assisted Instruction for Learning and Long-Term Retention Based on Recent Cognitive and Metacognitive Findings* (2003-2007)

• **Name of Institution:** University of Pittsburgh
Principal Investigator: Erik Reichle
Co-Principal Investigator: Jonathan Schooler (University of British Columbia)
Title: *Lapses in Meta-Cognition During Reading: Understanding Comprehension Failure* (2003-2007)

• **Name of Institution:** University of Wisconsin-Madison
Principal Investigator: Arthur Glenberg
Co-Principal Investigator: Joel Levin (University of Arizona)
Title: *Training Indexing to Enhance Meaning Extraction in Young Readers* (2003-2007)

• **Name of Institution:** Washington University in St. Louis
Principal Investigator: Henry Roediger, III
Co-Principal Investigators: Kathleen McDermott, Mark McDaniel
Title: *Test-Enhanced Learning* (2003-2006)

• **Name of Institution:** Yale University
Principal Investigator: Robert Sternberg
Co-Principal Investigator: Linda Jarvin
Title: *Understanding Students' Mathematical Competencies: An Exploration of the Impact of Contextualizing Mathematical Problems* (2003-2007)

FY 2002 AWARDS

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: Robert Siegler
Title: *Using Cognitive Analyses to Improve Children's Math and Science Learning* (2002-2006)

- **Name of Institution:** Columbia University
Principal Investigator: Jennifer Mangels
Co-Principal Investigator: Carol Dweck (Stanford University)
Title: *The Influence of Students' Intelligence Beliefs on Attention, Information Processing, and Learning: A Neurophysiological Analysis* (2002-2007)
- **Name of Institution:** Northern Illinois University
Principal Investigator: M. Anne Britt
Title: *Improving Students' Comprehension and Construction of Arguments* (2002-2006)
- **Name of Institution:** Northwestern University
Principal Investigator: David Uttal
Co-Principal Investigator: Judy DeLoache (University of Virginia)
Title: *Learning From Symbolic Objects* (2002-2006)
- **Name of Institution:** University of California, Los Angeles
Principal Investigator: Robert Bjork
Co-Principal Investigator: Marcia Linn (University of California, Berkeley)
Title: *Introducing Desirable Difficulties for Educational Applications in Science* (2002-2006)
- **Name of Institution:** University of California, Riverside
Principal Investigator: H. Lee Swanson
Title: *Age-Related Changes in Word Problem Solving and Working Memory* (2002-2005)
- **Name of Institution:** University of California, San Diego
Principal Investigator: Harold Pashler
Title: *Optimizing Resistance to Forgetting* (2002-2005)

EARLY CHILDHOOD PROGRAMS AND POLICIES

FY 2008 AWARDS

- **Name of Institution:** Ohio State University
Principal Investigator: Laura Justice
Goal: Efficacy and Replication
Title: *Efficacy of Read It Again! in Rural Preschool Settings*

- **Name of Institution:** Florida State University
Principal Investigator: Beth Phillips
Goal: Development
Title: *Using Educational Television to Enhance Young Children's Language and Vocabulary Skills*

- **Name of Institution:** Florida State University
Principal Investigator: Cynthia Puranik
Goal: Measurement
Title: *Test of Emergent Writing Skills*

- **Name of Institution:** University of California
Principal Investigator: Prentice Starkey
Goal: Efficacy and Replication
Title: *Closing the SES Related Gap in Young Children's Mathematical Knowledge*

- **Name of Institution:** University at Buffalo, The State University of New York
Principal Investigator: Doug Clements
Co-Principal Investigators: Julia Sarama
Goal: Efficacy and Replication
Title: *Increasing the Efficacy of an Early Mathematics Curriculum with Scaffolding Designed to Promote Self-Regulation*

EDUCATION LEADERSHIP

FY 2008 AWARDS

• **Name of Institution:** University of Michigan
Principal Investigator: Roger Goddard
Goal: Efficacy and Replication
Title: *A Randomized Controlled Trial to Assess the Efficacy of the Balanced Leadership Program*

• **Name of Institution:** University of Pennsylvania
Principal Investigator: Andrew Porter
Goal: Measurement
Title: *The Development and Validation of the Vanderbilt Assessment of Leadership in Education*

FY 2007 AWARDS

• **Name of Institution:** Vanderbilt University
Principal Investigator: Leonard Bickman
Goal: Development
Title: *Improving Principal Leadership Through Feedback and Coaching*

FY 2005 AWARDS

• **Name of Institution:** University of Wisconsin-Madison
Principal Investigator: Anthony Milanowski
Co-Principal Investigators: Steven Kimball, Herbert Heneman, III
Goal: Identification
Title: *Study of Innovative School Leadership Performance Evaluation Systems*

• **Name of Institution:** School Leadership Center of Greater New Orleans
Principal Investigator: Brian Riedlinger
Co-Principal Investigators: Scott Bauer (George Mason University), Betty Porter, Jeffrey Oescher (University of Southeastern Louisiana)
Goal: Development
Title: *The Coaching Model: A Collaborative Pilot Program*

FY 2004 AWARDS

• **Name of Institution:** MDRC

Principal Investigator: Janet Quint

Co-Principal Investigator: Jason Snipes

Goal: Development

Title: *Learning From Efforts to Strengthen Educational Leadership in Urban School Districts (2004-2008)*

• **Name of Institution:** University of Pennsylvania

Principal Investigator: Jonathan Supovitz

Co-Principal Investigators: James Spillane (Northwestern University), Carol Barnes (University of Michigan), Eric Camburn (University of Michigan), Ellen Goldring (Vanderbilt University)

Goal: Efficacy and Replication

Title: *Assessing the Impact of Principals' Professional Development: An Evaluation of the National Institute for School Leadership*

EDUCATION POLICY, FINANCE, AND SYSTEMS

FY 2008 AWARDS

• **Name of Institution:** Massachusetts Department of Elementary and Secondary Education

Principal Investigator: Carrie Conaway

Goal: Efficacy and Replication

Title: *Massachusetts Expanded Learning Time: Implementation and Outcomes*

• **Name of Institution:** University of Pennsylvania

Principal Investigator: Elliot Weinbaum

Goal: Identification

Title: *School Responses to AYP Classification Due to Student Subgroups and the Relationship to Student Achievement*

• **Name of Institution:** University of Pennsylvania
Principal Investigator: John Fantuzzo
Goal: Identification
Title: *Kids Integrated Data System (KIDS): An Evidence-based System for Enhancing Educational Proficiency and Social Adjustment*

• **Name of Institution:** National Bureau of Economic Research
Principal Investigator: Susan Dynarsky
Co-Principal Investigators: Jonathan Gruber (Massachusetts Institute of Technology)
Goal: Identification
Title: *Catholic School Prices, Private School Attendance, and Student Outcomes*

• **Name of Institution:** University of Wisconsin-Madison
Principal Investigator: Robert Meyer
Co-Principal Investigators: Allan Odden
Goal: Measurement
Title: *Creating an Integrated Resource Information System to Assess Student, Teacher, Classroom, and School Effects on Value-Added Student Learning Gains and to Support More Cost-Effective Budgeting*

FY 2007 AWARDS

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: Dennis Epple
Goal: Efficacy and Replication
Title: *Determinants of Student Outcomes in an Urban School District: Educational Interventions and Family Choices*

• **Name of Institution:** Stanford University
Principal Investigator: Sean Reardon
Goal: Identification
Title: *The Effects of Racial School Segregation on the Black-White Achievement Gap*

• **Name of Institution:** Western Michigan University
Principal Investigator: Gary Miron
Goal: Development
Title: *Evaluation of the Kalamazoo Promise*

FY 2006 AWARDS

• **Name of Institution:** University at Albany, State University of New York
Principal Investigator: James Wyckoff
Co-Principal Investigators: Hamilton Lankford, Donald Boyd, Susanna Loeb (Stanford University), Pamela Grossman (Stanford University)
Goal: Identification
Title: *Do Reduced Barriers to Entry Affect Student Achievement and Teacher Retention?: The Case of New York City Math Immersion*

FY 2005 AWARDS

• **Name of Institution:** National Bureau of Economic Research
Principal Investigator: Patrick Bayer
Co-Principal Investigators: Fernando Ferreira, Robert McMillan
Goal: Identification
Title: *The Unintended Consequences of a Major Education Policy Reform: California's Class Size Reduction, Student Achievement, and the "Social Multiplier" (2005-2008)*

• **Name of Institution:** National Bureau of Economic Research
Principal Investigator: Thomas Kane
Co-Principal Investigators: Justine Hastings, Douglas Staiger
Goal: Efficacy and Replication
Title: *Implementing Public School Choice in Charlotte, NC: Impacts on Student Outcomes, Competitiveness, and Racial Segregation*

- **Name of Institution:** The Pennsylvania State University
Principal Investigator: William Hartman
Goal: Measurement
Title: *Cost Accounting for Student-Level Resources*

FY 2004 AWARDS

- **Name of Institution:** New York University
Principal Investigator: Leanna Stiefel
Co-Principal Investigator: Amy Ellen Schwartz
Goal: Identification
Title: *How Should We Organize Primary Schooling? Grade Span, School Size, and Student Academic Achievement (2004–2007)*

- **Name of Institution:** Vanderbilt University
Principal Investigator: Ellen Goldring
Co-Principal Investigator: Dale Ballou
Goal: Identification
Title: *Public School Choice: Magnet Schools, Peer Effects, and Student Achievement (2004–2007)*

- **Name of Institution:** Empirical Education Inc.
Principal Investigator: Denis Newman
Goal: Development
Title: *Low Cost Experiments to Support Local School District Decisions*

EDUCATION TECHNOLOGY

FY 2008 AWARDS

- **Name of Institution:** University of Connecticut
Principal Investigator: Scott Brown
Goal: Development
Title: *Expanding the Science and Literacy Curricular Space: The GlobalEd II Project*

- **Name of Institution:** University of Memphis
Principal Investigator: Danielle McNamara
Goal: Development

Title: *The Writing Pal: An Intelligent Tutoring System that Provides Interactive Writing Strategy Training*

• **Name of Institution:** Harvard University

Principal Investigator: Christopher Dede

Goal: Development

Title: *Advancing Ecosystems Science Education via Situated Collaborative Learning in Multi-User Virtual Environments*

• **Name of Institution:** WestEd

Principal Investigator: Edys Quellmalz

Goal: Development

Title: *SimScientists: Interactive Simulation-based Science Learning Environments*

• **Name of Institution:** University of Memphis

Principal Investigator: Andrew Olney

Goal: Development

Title: *Guru: A Computer Tutor that Models Expert Human Tutors*

• **Name of Institution:** Carnegie Mellon University

Principal Investigator: David Mostow

Goal: Development

Title: *Accelerating Fluency Development in an Automated Reading Tutor*

• **Name of Institution:** University of California, Santa Cruz

Principal Investigator: Judith Scott

Goal: Development

Title: *Explicit Scaffolding for Word Learning in Context through Multimedia Word Annotation*

• **Name of Institution:** University of Massachusetts Amherst

Principal Investigator: Beverly Woolf

Goal: Development

Title: *Teaching Every Student: Using Intelligent Tutoring and Universal Design to Customize the Mathematics Curriculum*

- **Name of Institution:** Harvard University
Principal Investigator: Christopher Dede
Goal: Measurement
Title: *Studying the Potential of Virtual Performance Assessments for Measuring Student Achievement in Science*

INTERVENTIONS FOR STRUGGLING ADOLESCENT AND ADULT READERS AND WRITERS

FY 2008 AWARDS

- **Name of Institution:** Harvard University
Principal Investigator: Nonie Lesaux
Goal: Efficacy and Replication
Title: *Increasing Opportunities-To-Learn in Urban Middle Schools*

- **Name of Institution:** University of Texas at Austin
Principal Investigator: Sharon Vaughn
Goal: Efficacy and Replication
Title: *Collaborative Strategic Reading (CSR) Interventions for Struggling Adolescent and Adult Readers and Writers*

FY 2007 AWARDS

- **Name of Institution:** California State University, Long Beach
Principal Investigator: Claude Goldenberg
Goal: Development
Title: *Content-Rich Vocabulary Development to Improve Reading Achievement of Struggling Adolescent Readers*
- **Name of Institution:** Success for All Foundation
Principal Investigator: Nancy Madden
Goal: Development
Title: *The Reading Edge: Development and Evaluation of a High School Cooperative Learning Reading Intervention Program*

- **Name of Institution:** University of Kansas
Principal Investigator: Daryl Mellard
Goal: Development
Title: *Improving Adults' Reading Outcomes with Strategic Tutoring and Content Enhancement Routines*

MATHEMATICS AND SCIENCE EDUCATION

FY 2008 AWARDS

- **Name of Institution:** Biological Sciences Curriculum Study
Principal Investigator: Janet Carlson
Goal: Development
Title: *BSCS Science: An Inquiry Approach--Development of a Conceptually Coherent, Multidisciplinary Science Program for Grade Eight*
- **Name of Institution:** University of Illinois at Urbana-Champaign
Principal Investigator: Arthur Baroody
Goal: Efficacy and Replication
Title: *Fostering Fluency with Basic Addition & Subtraction*
- **Name of Institution:** Stanford University
Principal Investigator: Patrick Suppes
Goal: Efficacy and Replication
Title: *Closing the Achievement Gap in Middle School Mathematics Utilizing Stanford University's Education Program for Gifted Youth Differentiated Mathematics Program*
- **Name of Institution:** Pepperdine University
Principal Investigator: Eric Hamilton
Goal: Development
Title: *Agent and Library Augmented Shared Knowledge Areas (ALASKA)*
- **Name of Institution:** University of Illinois at Urbana-Champaign
Principal Investigator: Sarah Lubienski
Goal: Identification
Title: *A Longitudinal Study of Gender and Mathematics Using ECLS-K Data*

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: Vincent Aleven
Goal: Development
Title: *Bringing Cognitive Tutors to the Internet: A Website that Helps Middle-School Students Learn Math*

• **Name of Institution:** WestEd
Principal Investigator: Steven Schneider
Co-Principal Investigators: Edward Britton, Benny Johnson (Quantum Simulations)
Goal: Efficacy and Replication
Title: *A Randomized Controlled Study of the Effects of Intelligent Online Chemistry Tutors in Urban California School Districts*

• **Name of Institution:** Pacific Institutes for Research
Principal Investigator: Scott Baker
Goal: Efficacy and Replication
Title: *Early Learning in Mathematics: Efficacy in Kindergarten Classrooms*

• **Name of Institution:** WestEd
Principal Investigator: Edys Quellmalz
Co-Principal Investigators: Michael Timms
Goal: Measurement
Title: *Multilevel Assessments of Science Standards (MASS)*

FY 2007 AWARDS

▪ **Name of Institution:** Johns Hopkins University
Principal Investigator: Robert Balfanz
Co-Principal Investigator: Ruth Neild
Goal: Efficacy and Replication
Title: *Successful Transitions to Algebra 1: A Randomized Control Trial of Two Theories of Ninth Grade Algebra Instruction*

▪ **Name of Institution:** Quantum Simulations, Inc.
Principal Investigator: Benny Johnson
Goal: Development
Title: *Integrated Software for Artificial Intelligence Tutoring and Assessment in Science*

• **Name of Institution:** RAND Corporation
Principal Investigator: John Pane
Goal: Scale-Up Evaluations
Title: *Effectiveness of Cognitive Tutor Algebra One Implemented at Scale*

• **Name of Institution:** Teachers College, Columbia University
Principal Investigator: Herbert Ginsburg
Co-Principal Investigator: Young-Sun Lee
Goal: Measurement
Title: *mCLASS:Math: Development and Analysis of an Integrated Screening, Progress Monitoring, and Cognitive Assessment System for K-3 Mathematics.*

• **Name of Institution:** University of Alaska Fairbanks
Principal Investigator: Jerry Lipka
Goal: Development
Title: *The Potential Efficacy of Math in a Cultural Context: Sixth Grade Math Modules*

• **Name of Institution:** University of California, Berkeley
Principal Investigator: Geoffrey Saxe
Co-Principal Investigator: Sophia Rabe-Hesketh
Goal: Development
Title: *Teaching Fractions and Integers: The Development of a Research-Based Instructional Practice*

• **Name of Institution:** University of Massachusetts Dartmouth
Principal Investigator: Stephen Hegedus
Co-Principal Investigator: Luis Moreno-Armella
Goal: Development
Title: *Democratizing Access to Core Mathematics Grades 9-12*

• **Name of Institution:** University of Virginia
Principal Investigator: Mable Kinzie
Goal: Development
Title: *Pre-Kindergarten Mathematics and Science for At-Risk Children: Outcomes-Focused Curricula and Support for Teaching Quality*

• **Name of Institution:** Vanderbilt University
Principal Investigator: Paul Cobb
Co-Principal Investigator: Thomas Smith, Dale Farran
Goal: Development
Title: *Evaluating Math Recovery With Student Outcomes*

• **Name of Institution:** WestEd
Principal Investigator: John Flaherty
Co-Principal Investigator: Joseph McCrary
Goal: Efficacy and Replication
Title: *Randomized Trial of First in Math: New York City*

• **Name of Institution:** WestEd
Principal Investigator: Steven Schneider
Co-Principal Investigator: Mike Timms
Goal: Efficacy and Replication
Title: *Diagnostic Embedded Classroom Assessment - An Efficacy Study*

• **Name of Institution:** WestEd
Principal Investigator: Steve Schneider
Goal: Development
Title: *Algebra Intervention for Measured Achievement: Full Year Curriculum*

• **Name of Institution:** Worcester Polytechnic Institute
Principal Investigator: Neil Heffernan, III
Goal: Development
Title: *Making Longitudinal Web-Based Assessments Give Cognitively Diagnostic Reports to Teachers, Parents, and Students While Employing Mastery Learning*

FY 2006 AWARDS

• **Name of Institution:** High/Scope Educational Research Foundation

Principal Investigator: Ann Epstein

Co-Principal Investigator: Marijata Daniel-Echols

Goal: Development

Title: *Numbers Plus: A Comprehensive Approach to Early Mathematics Education*

• **Name of Institution:** Lehigh University

Principal Investigator: Asha Jitendra

Co-Principal Investigator: Jon Star (Harvard University)

Goal: Development

Title: *Enhancing the Mathematical Problem Solving Performance of Sixth Grade Students Using Schema-Based Instruction*

• **Name of Institution:** Miami Museum of Science

Principal Investigator: Judy Brown

Co-Principal Investigators: Daryl Greenfield (University of Miami), Mark Chung (SRI International)

Goal: Development

Title: *Early Childhood Hands-On Science Curriculum Development and Demonstration*

• **Name of Institution:** SRI International

Principal Investigator: Jeremy Roschelle

Co-Principal Investigator: Ken Rafanan

Goal: Development

Title: *Getting Fractions Right With Technology-Mediated Peer-Assisted Learning (TechPALS)*

• **Name of Institution:** Biological Sciences Curriculum Study
Principal Investigator: Joseph Taylor
Co-Principal Investigator: Janet Carlson Powell
Goal: Efficacy and Replication
Title: *Measuring the Efficacy and Student Achievement of Research-Based Instructional Materials in High School Multidisciplinary Science*

• **Name of Institution:** Vanderbilt University
Principal Investigator: Richard Lehrer
Co-Principal Investigators: Leona Schauble, Mark Wilson (University of California, Berkeley)
Goal: Measurement
Title: *Assessing Data Modeling and Statistical Reasoning*

FY 2005 AWARDS

• **Name of Institution:** New York University
Principal Investigator: Jan Plass
Co-Principal Investigators: Catherine Milne, Bruce Homer, Trace Jordan
Goal: Development
Title: *Molecules and Minds: Optimizing Simulations for Chemistry Education*

• **Name of Institution:** Purdue University
Principal Investigator: Panayota Mantzicopoulos
Co-Principal Investigators: Helen Patrick, Ala Samarapungavan
Goal: Development
Title: *The Scientific Literacy Project: Enhancing Young Children's Scientific Literacy Through Reading and Inquiry-Centered Adult-Child Dialog*

• **Name of Institution:** University of Illinois
Principal Investigator: Arthur Baroodly
Goal: Development
Title: *Developing an Intervention to Foster Early Number Sense and Skill*

• **Name of Institution:** University of Southern California
Principal Investigator: Carole Beal
Goal: Development
Title: *AnimalWatch: An Intelligent Tutoring System for Grade 6 Mathematics*

• **Name of Institution:** Ohio State University
Principal Investigator: Douglas Owens
Co-Principal Investigators: Louis Abrahamson (The Better Education Foundation), Frank Demana, Karen Irving, Stephen Pape, Joan Herman (University of California, Los Angeles)
Goal: Efficacy and Replication
Title: *Classroom Connectivity in Promoting Mathematics and Science Achievement*

• **Name of Institution:** WestEd
Principal Investigator: Carne Barnett-Clarke
Goal: Efficacy and Replication
Title: *Math Pathways and Pitfalls Lessons for K-7 Students: Improving Mathematics Achievement for English Language Learners*

• **Name of Institution:** University of California, Berkeley
Principal Investigator: Prentice Starkey
Co-Principal Investigator: Alice Klein
Goal: Scale-Up Evaluations
Title: *Scaling Up the Implementation of a Pre-Kindergarten Mathematics Curriculum in Public Preschool Programs*

• **Name of Institution:** University at Buffalo, The State University of New York
Principal Investigator: Douglas Clements
Co-Principal Investigators: Julie Sarama, Jaekyung Lee
Goal: Scale-Up Evaluations
Title: *Scaling Up TRIAD: Teaching Early Mathematics for Understanding With Trajectories and Technologies*

FY 2004 AWARDS

• **Name of Institution:** Educational Testing Service

Principal Investigator: Caroline Wylie

Goal: Development

Title: *Developing and Using Diagnostic Items in Mathematics and Science*

• **Name of Institution:** Quantum Simulations, Inc.

Principal Investigator: Benny Johnson

Goal: Development

Title: *Integrated Software for Artificial Intelligence Tutoring and Assessment in Science*

• **Name of Institution:** University of Oregon

Principal Investigator: David Chard

Goal: Development

Title: *Early Learning in Mathematics: A Prevention Approach*

• **Name of Institution:** WestEd

Principal Investigator: Steve Schneider

Goal: Development

Title: *Algebraic Interventions for Measured Achievement*

• **Name of Institution:** Education Development Center, Inc.

Principal Investigator: Margaret Clements

Goal: Efficacy and Replication

Title: *An Examination of the Impact of Big Math for Little Kids on Pre-Kindergarten and Kindergarten Students' Learning of Math*

FY 2003 AWARDS

• **Name of Institution:** Carnegie Mellon University

Principal Investigator: Kenneth Koedinger

Title: *Using Web-Based Cognitive Assessment Systems for Predicting Student Performance on State Exams*

MIDDLE AND HIGH SCHOOL REFORM

FY 2008 AWARDS

- **Name of Institution:** Johns Hopkins University
Principal Investigator: Robert Balfanz
Goal: Development
Title: *High School Preparation for College Completion*

- **Name of Institution:** New York University
Principal Investigator: Leanna Stiefel
Goal: Identification
Title: *Do Small Schools Improve Student Performance in Large, Urban Districts? Evidence from New York City*

- **Name of Institution:** Harvard University
Principal Investigator: Richard Murnane
Goal: Identification
Title: *The Consequences for High School Students of Failing State Exit Exams: Evidence From Massachusetts*

- **Name of Institution:** Johns Hopkins University
Principal Investigator: Nettie Legters
Goal: Development
Title: *A Curriculum Engagement: Micro-Process Interventions in Middle and High School to Improve Attendance, Behavior, Achievement and Grade Promotion for At-Risk Ninth Graders*

FY 2007 AWARDS

- **Name of Institution:** Florida State University
Principal Investigator: Patrice Iatarola
Goal: Identification
Title: *Implications of High School Course Availability and Course-Taking*

▪ **Name of Institution:** MDRC

Principal Investigator: James Kemple

Goal: Efficacy and Replication

Title: *A Randomized Efficacy Trial of Academically Enhanced Rigorous Career Academies: Studying the Impact of the National Academy Foundation (NAF) Model*

FY 2006 AWARDS

• **Name of Institution:** The University of Chicago

Principal Investigator: Diane Schanzenbach

Goal: Identification

Title: *Assessing the Effectiveness of Chicago's Small High School Initiative*

• **Name of Institution:** University of Florida

Principal Investigator: Damon Clark

Co-Principal Investigator: Francisco Martorell

Goal: Identification

Title: *The Impact of Exit Exam Performance on High School and Postsecondary Outcomes*

• **Name of Institution:** University of Chicago

Principal Investigator: Elaine Allensworth

Co-Principal Investigator: Valerie Lee

Goal: Efficacy and Replication

Title: *Comprehensive Evaluation of the Effects of District-Wide High School Curriculum Reform on Academic Achievement and Attainment in Chicago*

• **Name of Institution:** University of North Carolina at Greensboro

Principal Investigator: Julie Edmunds

Co-Principal Investigator: Lawrence Bernstein

Goal: Efficacy and Replication

Title: *Study of the Efficacy of North Carolina's Learn and Earn Early College High School Model*

- **Name of Institution:** University of Rochester
- Principal Investigator:** Edward Deci
- Goal:** Scale-Up Evaluations
- Title:** *Examining the Effectiveness of Scaling Up the “First Things First” Reform Approach*

NATIONAL RESEARCH AND DEVELOPMENT CENTERS

FY 2008 AWARDS

- **Name of Institution:** The 21st Century Partnership for Stem Education
- Topic:** Cognition and Science Instruction
- Principal Investigator:** F. Joseph Merlino
- Center Name:** *National Research & Development Center on Cognition and Science Instruction*

- **Name of Institution:** The University of California, Los Angeles
- Topic:** Instructional Technology
- Principal Investigator:** Eva Baker
- Center Name:** *National Research & Development Center on Instructional Technology: Center for Advanced Technology in Schools*

- **Name of Institution:** Education Development Center
- Topic:** Instructional Technology
- Principal Investigator:** Cornelia Brunner
- Center Name:** *National Research & Development Center on Instructional Technology: Center for Children and Technology and Center for Science Education*

FY 2006 AWARDS

- **Name of Institution:** Teachers College, Columbia University
- Topic:** Postsecondary Education and Training
- Principal Investigator:** Thomas Bailey
- Center Name:** *National Center for Postsecondary Research*

• **Name of Institution:** University of Connecticut
Topic: Jacob K. Javits Gifted and Talented Education
Principal Investigator: Joseph Renzulli
Center Name: *National Research Center on the Gifted and Talented*

• **Name of Institution:** University of Virginia
Topic: Early Childhood Development and Education
Principal Investigator: Robert Pianta
Center Name: *National Center for Research on Early Childhood Education*

• **Name of Institution:** The Urban Institute
Topic: State & Local Education Policy
Principal Investigator: Jane Hannaway
Center Name: *Center for Analysis of Longitudinal Data in Education Research (CALDER)*

• **Name of Institution:** Vanderbilt University
Topic: State and Local Education Policy
Principal Investigator: James Guthrie
Co-Principal Investigator: Matthew Springer
Center Name: *National Center for Teacher Performance Incentives*

FY 2005 AWARDS

• **Name of Institution:** University of California, Los Angeles
Topic: Assessment, Standards, and Accountability
Principal Investigator: Eva Baker
Co-Principal Investigator: Joan Herman
Center Name: *Center for Research on Evaluation, Standards, and Student Testing (CRESST)*

• **Name of Institution:** University of Houston
Topic: English Language Learners
Principal Investigator: David Francis
Center Name: *Center for Research on the Educational Achievement and Teaching of English Language Learners (CREATE)*

FY 2004 AWARDS

• **Name of Institution:** Johns Hopkins University
Topic: Low Achieving Schools
Principal Investigator: Robert Slavin
Center Name: *Center for Data-Driven Reform in Education*

• **Name of Institution:** University of North Carolina at Chapel Hill
Topic: Rural Education
Principal Investigator: Thomas Farmer
Co-Principal Investigator: Lynne Vernon-Feagans
Center Name: *National Research Center on Rural Education Support*

• **Name of Institution:** Vanderbilt University
Topic: Innovation in Education Reform
Principal Investigator: Mark Berends
Center Name: *National Center on School Choice*

POSTDOCTORAL RESEARCH TRAINING PROGRAM IN THE EDUCATION SCIENCES

FY 2008 AWARDS

• **Name of Institution:** City University of New York
Training Director: Bruce Homer
Training Co-Directors: Jan Plass (New York University)
Title: *Interdisciplinary Postdoctoral Research and Training Fellowship in the Educational Sciences (IPoRT)*

• **Name of Institution:** University of Nebraska-Lincoln
Training Director: Susan Sheridan
Training Co-Directors: James Bovaird, Todd Glover
Title: *Postdoctoral Fellowship for Research on Consultation-based Interventions for Students with Social and Behavioral Concerns*

• **Name of Institution:** University of Oregon
Training Director: Gerald Tindal
Title: *Postdoctoral Fellowships on Progress Monitoring in Reading and Mathematics*

• **Name of Institution:** Vanderbilt University
Training Director: Paul Cobb
Training Co-Directors: Gautam Biswas, Bethany Rittle-Johnson, Thomas Smith
Title: *Postdoctoral Training: Research Methods in the Learning Sciences*

FY 2007 AWARDS

• **Name of Institution:** Georgia State University
Training Director: Rose Sevcik
Training Co-Director: Amy Lederberg
Title: *Postdoctoral Research Training in Language and Literacy Interventions With Special Populations*

• **Name of Institution:** University at Buffalo, The State University of New York
Training Director: Julie Sarama
Training Co-Director: Douglas Clements
Title: *Comprehensive Postdoctoral Training in Scientific Education Research*

• **Name of Institution:** University of California, Berkeley
Training Director: Mark Wilson
Training Co-Director: Sophie Rabe-Hesketh
Title: *The Berkeley Research Experience and Methodology (BREM) Program*

FY 2006 AWARDS

• **Name of Institution:** Stanford University
Training Director: Anthony Bryk
Title: *Postdoctoral Research Training in the Education Sciences*

• **Name of Institution:** University of North Carolina at Chapel Hill
Training Director: Donna Bryant
Title: *Postdoctoral Training in Behavioral and Family Supports*

• **Name of Institution:** University of Oregon
Training Director: Robert Horner
Training Co-Director: Thomas Dishion
Title: *Postdoctoral Research Training in the Education Sciences*

• **Name of Institution:** University of Virginia
Training Director: Robert Pianta
Title: *Interdisciplinary Postdoctoral Training Program in Education Sciences*

FY 2005 AWARDS

• **Name of Institution:** Florida Center for Reading Research, Florida State University
Training Director: Christopher Lonigan
Title: *PIRT Program to Increase Research Capacity in Educational Science*

• **Name of Institution:** Northwestern University
Training Director: Larry Hedges
Title: *Postdoctoral Research Training in Education Sciences*

• **Name of Institution:** Purdue University
Training Director: Douglas Powell
Title: *Postdoctoral Training in Early Childhood Research*

• **Name of Institution:** University of California, Berkeley
Training Director: Prentice Starkey
Title: *Postdoctoral Training and Research in Children's Early Mathematical Training*

• **Name of Institution:** University of Pittsburgh
Training Director: Charles Perfetti
Title: *Postdoctoral Training in Reading and Language Research*

• **Name of Institution:** Vanderbilt University
Training Director: David Cordray
Title: *Experimental Education Research Training (ExpERT)*

PREDOCTORAL RESEARCH TRAINING PROGRAM IN THE EDUCATION SCIENCES

FY 2008 AWARDS

- **Name of Institution:** New York University
Training Director: J. Lawrence Aber
Title: *The New York University (NYU) Predoctoral Training Program in Education Sciences*

- **Name of Institution:** Johns Hopkins University
Training Director: Karl Alexander
Title: *Using Research to Improve Student and School Outcomes by Improving Programs and Practices, Grades K-12*

- **Name of Institution:** University of California, Los Angeles
Training Director: Noreen Webb
Title: *Advanced Quantitative Methodology for Improving Educational Practice*

- **Name of Institution:** Vanderbilt University
Training Director: David Cordray
Title: *Vanderbilt Predoctoral Research Training in Education Sciences*

- **Name of Institution:** Northwestern University
Training Director: David Uttal
Title: *Multidisciplinary Program in Education Sciences*

FY 2005 AWARDS

- **Name of Institution:** University of Chicago
Training Director: Stephen Raudenbush
Title: *Interdisciplinary Training in Educational Research Methods*

- **Name of Institution:** University of Miami
Training Director: Daryl Greenfield
Title: *Interdisciplinary Training in Education Research and Advanced Statistical Methods*

• **Name of Institution:** University of Minnesota
Training Director: Mark Davison
Training Co-Director: Paul van den Broek
Title: *Minnesota Interdisciplinary Training in Education Research*

• **Name of Institution:** University of Pennsylvania
Training Director: Rebecca Maynard
Title: *University of Pennsylvania Predoctoral Training Program in Interdisciplinary Methods for Field-Based Research in Education*

• **Name of Institution:** University of Wisconsin-Madison
Training Director: Adam Gamoran
Title: *Interdisciplinary Training Program for Predoctoral Research in the Education Sciences*

FY 2004 AWARDS

• **Name of Institution:** Carnegie Mellon University
Training Director: David Klahr
Title: *Program in Interdisciplinary Education Research (PIER)*

• **Name of Institution:** Florida Center for Reading Research,
Florida State University
Training Director: Christopher Lonigan
Title: *PIRT Program to Increase Research Capacity in Educational Science*

• **Name of Institution:** Northwestern University
Training Director: David Uttal
Training Co-Director: Greg Duncan
Title: *Multidisciplinary Program in Education Sciences (MPES)*

• **Name of Institution:** University of Virginia
Training Director: Robert Pianta
Training Co-Directors: Laura Justice, Sara Rimm-Kaufman
Title: *Interdisciplinary Doctoral Training Program in Education Sciences*

- **Name of Institution:** Vanderbilt University
Training Director: David Cordray
Title: *Experimental Education Research Training (ExpERT)*

PRESCHOOL CURRICULUM EVALUATION RESEARCH

FY 2003 AWARDS

- **Name of Institution:** Mathematica Policy Research, Inc.
Principal Investigator: John Love
Title: *Preschool Curriculum Evaluation Research (PCER) National Evaluation Contract (2003-2007)*

- **Name of Institution:** Florida State University
Principal Investigators: Christopher Lonigan, Christopher Schatschneider
Curriculum Under Evaluation: Open Court Pre-K/DLM Express and Literacy Express
Title: *Evaluating the Effectiveness of Preschool Literacy Curricula for At-Risk Populations*

- **Name of Institution:** Success for All Foundation
Principal Investigator: Bette Chambers
Curriculum Under Evaluation: Curiosity Corner
Title: *Randomized Evaluation of Curiosity Corner With Follow-Up Into Success for All and Control Elementary Programs (2003-2007)*

- **Name of Institution:** University of California, Berkeley
Principal Investigator: Anne Cunningham
Curriculum Under Evaluation: Ready, Set, Leap!
Title: *A Longitudinal Study of the Effectiveness of a Pre-Kindergarten Multisensory Literacy Curriculum, Experience, and Professional Development on Children's Learning Outcomes*

• **Name of Institution:** University of Missouri
Principal Investigator: Kathy Thornburg
Curriculum Under Evaluation: Project Construct
Title: *Project Construct: A Catalyst for Early Achievement*

• **Name of Institution:** University of Virginia
Principal Investigator: Laura Justice
Curriculum Under Evaluation: The Language-Focused Curriculum
Title: *Short- and Long-Term Impact of the Language Focused Curriculum*

FY 2002 AWARDS

• **Name of Institution:** RTI International
Principal Investigator: Ina Wallace
Title: *Preschool Curriculum Evaluation Research (PCER) National Evaluation Contract (2002-2007)*

• **Name of Institution:** Purdue University
Principal Investigator: Douglas Powell
Curriculum Under Evaluation: The Project Approach
Title: *The Impact of the Project Approach on Children's School Readiness and School Achievement (2002-2007)*

• **Name of Institution:** University of California, Berkeley
Principal Investigator: Prentice Starkey
Curriculum Under Evaluation: Pre-Kindergarten Mathematics
Title: *A Longitudinal Study of the Effects of a Pre-Kindergarten Mathematics Curriculum on Low-Income Children's Mathematical Knowledge*

• **Name of Institution:** University of New Hampshire
Principal Investigator: Jeff Priest
Curriculum Under Evaluation: Ladders to Literacy With Creative Curriculum
Title: *Granite Ladders: An Experimental Evaluation of an Early Literacy Curriculum for New Hampshire's Preschoolers (2002-2007)*

• **Name of Institution:** University of North Carolina at Charlotte
Principal Investigator: Richard Lambert
Curriculum Under Evaluation: Creative Curriculum
Title: *An Evaluation of the Effects of Creative Curriculum on the Developmental Progress of Children in Two Head Start Programs*

• **Name of Institution:** University of North Florida
Principal Investigator: Cheryl Fountain
Curriculum Under Evaluation: Early Literacy and Learning Model
Title: *Evaluation of the Early Literacy and Learning Model: A Curriculum and Instructional Support System*

• **Name of Institution:** University of Texas Health Science Center at Houston
Principal Investigator: Susan Landry
Curriculum Under Evaluation: Let's Begin With the Letter People; Doors to Discovery
Title: *Evaluation of Pre-Kindergarten Curricula in Head Start and Public School Settings (2002-2007)*

• **Name of Institution:** Vanderbilt University
Principal Investigator: Dale Farran
Curriculum Under Evaluation: Bright Beginnings; Creative Curriculum
Title: *Focus in Early Childhood Curricula: Helping Children Transition to School*

POSTSECONDARY EDUCATION

FY 2008 AWARDS

• **Name of Institution:** MPR Associates, Inc.
Principal Investigator: Karen Levesque
Goal: Development
Title: *Using High School Transcript Data to Improve Student Access to 4-Year Colleges*

- **Name of Institution:** University of Texas at Dallas
Principal Investigator: Isaac McFarlin
Goal: Identification
Title: *Transitions through Higher Education: Evidence on the Mismatch Hypothesis*
- **Name of Institution:** Dartmouth College
Principal Investigator: Bruce Sacerdote
Co-Principal Investigators: Scott Carrell (University of California, Davis)
Goal: Development
Title: *Getting Qualified High School Seniors to Enroll in College: An Experimental Study in Vermont*
- **Name of Institution:** University of Chicago
Principal Investigator: Melissa Roderick
Co-Principal Investigators: Stephen Raudenbush
Goal: Efficacy and Replication
Title: *Improving Postsecondary Preparation in Urban Public High Schools: An Evaluation of AVID in Chicago*
- **Name of Institution:** Berkeley Policy Associates
Principal Investigator: Johannes Bos
Goal: Efficacy and Replication
Title: *Evaluation of the SOURCE Program: An Intervention to Promote College Application and Enrollment Among Urban Youth-Primary Outcomes*
- **Name of Institution:** SRI International
Principal Investigator: Louise Yarnall
Co-Principal Investigators: Geneva Haertel
Goal: Measurement
Title: *Domain-Specific Assessment: Bringing the Classroom into Community College Accountability*

FY 2007 AWARDS

• **Name of Institution:** Correctional Education Association

Principal Investigator: Stephen Steurer

Co-Principal Investigator: Penny Richardson

Goal: Development

Title: *Developing a Program of Postsecondary Academic Instruction Over the Corrections Learning Network*

• **Name of Institution:** University of California, Davis

Principal Investigator: Michal Kurlaender

Goal: Identification

Title: *The Effects of Institutional Practices on Postsecondary Trajectories -- Matriculation, Persistence and Time-to-Degree*

• **Name of Institution:** University of Texas at Dallas

Principal Investigator: Isaac McFarlin, Jr.

Goal: Identification

Title: *The Effects of College Remediation on Students' Academic and Labor Market Outcomes*

READING AND WRITING

FY 2008 AWARDS

• **Name of Institution:** Mid-continent Research for Education and Learning (McREL)

Principal Investigator: Helen Apthorp

Goal: Efficacy and Replication

Title: *Efficacy Trial of Robust Vocabulary Instruction*

• **Name of Institution:** Educational Testing Service

Principal Investigator: Paul Deane

Goal: Measurement

Title: *Measuring the Development of Vocabulary and Word Learning to Support Content Area Reading and Learning*

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: David Mostow
Co-Principal Investigators: Margaret McKeown, Charles Perfetti
(University of Pittsburgh)
Goal: Development
Title: *Developing Vocabulary in an Automated Reading Tutor*

• **Name of Institution:** The Pennsylvania State University
Principal Investigator: Kay Wijekumar
Co-Principal Investigators: Bonnie Meyer, Pui-Wa Lei, Jonna Kulikowich
Goal: Efficacy and Replication
Title: *Efficacy and Replication Research on the Intelligent Tutoring System for the Structure Strategy -- Rural and Suburban Schools Grades 4,5,7 and 8*

FY 2007 AWARDS

• **Name of Institution:** Center for Applied Linguistics
Principal Investigator: Igone Arteagoitia
Co-Principal Investigator: Elizabeth Howard
Goal: Development
Title: *Content-Based Vocabulary Instruction: Using Cognates to Promote the Vocabulary Development and Reading Comprehension of Native Spanish Speakers*

• **Name of Institution:** Florida State University
Principal Investigator: Carol Connor
Co-Principal Investigator: Frederick Morrison (University of Michigan)
Goal: Efficacy and Replication
Title: *Child-Instruction Interactions in Reading: Examining Causal Effects of Individualized Instruction in Second and Third Grade*

• **Name of Institution:** University of Colorado at Boulder
Principal Investigator: Barbara Wise
Goal: Measurement
Title: *Early ICARE: Early Independent Comprehensive Adaptive Reading Evaluation*

• **Name of Institution:** University of Nebraska-Lincoln
Principal Investigator: J. Ron Nelson
Goal: Development
Title: *Effects of a Supplementary Vocabulary Intervention for Students with Limited English Proficiency*

• **Name of Institution:** University of Oregon
Principal Investigator: Scott Baker
Co-Principal Investigator: Lana Edwards Santoro
Goal: Efficacy and Replication
Title: *Reading Intervention with Spanish-Speaking Students: Maximizing Instructional Effectiveness in English and Spanish*

• **Name of Institution:** Washington Research Institute
Principal Investigator: Patricia Vadasy
Goal: Efficacy and Replication
Title: *Efficacy of Sound Partners Supplemental Tutoring for ELL Students, Grades K-1*

FY 2006 AWARDS

• **Name of Institution:** California State University, Los Angeles
Principal Investigator: Anne Hafner
Goal: Identification
Title: *Using Growth Mixture Modeling to Identify Patterns of Early Reading Development and Teacher and Program Correlates for English Learners (2006-2007)*

• **Name of Institution:** Teachers College, Columbia University
Principal Investigator: Dolores Perin
Goal: Development
Title: *Postsecondary Content-Area Reading-Writing Intervention: Development and Determination of Potential Efficacy*

• **Name of Institution:** University of California, Santa Cruz
Principal Investigator: Judith Scott
Co-Principal Investigator: Katharine Samway (San Jose State University)
Goal: Development
Title: *Vocabulary Development Through Writing: A Key to Academic Success*

• **Name of Institution:** University of Texas Health Sciences Center at Houston

Principal Investigator: Dennis Ciancio

Goal: Development

Title: *Development of an Empirically Based Vocabulary Curriculum for Kindergarten and First Grade Students*

FY 2005 AWARDS

• **Name of Institution:** Arizona State University

Principal Investigator: M. Adelaida Restrepo

Goal: Development

Title: *Vocabulary and Abstract Language Enhancement (VALE) to Improve Reading Comprehension in English Language Learners*

• **Name of Institution:** CAST, Inc.

Principal Investigator: Bridget Dalton

Co-Principal Investigators: Patrick Proctor (Boston College), Catherine Snow (Harvard University)

Goal: Development

Title: *Improving Reading Comprehension for Struggling Readers: Understanding the Roles of Vocabulary Development, Guided Strategy Use, and Spanish Language Supports in a Digital Reading Environment*

• **Name of Institution:** Texas A&M University

Principal Investigator: Jorge Gonzalez

Co-Principal Investigator: Deborah Simmons

Goal: Development

Title: *Project Words of Oral Reading and Language Development (Project WORLD)*

• **Name of Institution:** University of California, Riverside

Principal Investigator: Robert Calfee

Co-Principal Investigator: Roxanne Miller (Chapman University)

Goal: Development

Title: *The Read-Write Cycle: An Integrated Model for Instruction and Assessment of Reading Comprehension Through Reading and Writing in the Disciplines*

- **Name of Institution:** University of California, Riverside
Principal Investigator: Rollanda O'Connor
Co-Principal Investigator: H. Lee Swanson
Goal: Development
Title: *Variations in Procedures to Improve Reading Fluency and Comprehension*
- **Name of Institution:** University of Connecticut
Principal Investigator: Donald Leu
Co-Principal Investigator: David Reinking (Clemson University)
Goal: Development
Title: *Developing Internet Comprehension Strategies Among Adolescent Students At Risk to Become Dropouts*
- **Name of Institution:** Vanderbilt University
Principal Investigator: Donald Compton
Goal: Development
Title: *Evaluating a Multicomponent Reading Intervention Designed to Address the Diverse Needs of Struggling Readers in Late Elementary School*
- **Name of Institution:** Pacific Institutes for Research
Principal Investigator: Scott Baker
Co-Principal Investigators: Lana Edwards Santoro, David Chard
Goal: Efficacy and Replication
Title: *The Read Aloud Curriculum in First Grade Classrooms: Furthering Our Understanding of Immediate and Long-Term Impacts and Causal Influences*
- **Name of Institution:** University of Virginia
Principal Investigator: Laura Justice
Goal: Efficacy and Replication
Title: *Print Referencing Efficacy*
- **Name of Institution:** Boston University
Principal Investigator: Gloria Waters
Goal: Measurement
Title: *Assessment of Comprehension Skills in Older Struggling Readers*

• **Name of Institution:** University of Houston
Principal Investigator: David Francis
Co-Principal Investigators: Catherine Snow (Harvard University), Diane August (Center for Applied Linguistics)
Goal: Measurement
Title: *Diagnostic Assessment of Reading Comprehension: Development and Validation*

• **Name of Institution:** University of Illinois at Chicago
Principal Investigator: Kimberly Lawless
Co-Principal Investigator: Susan Goldman
Goal: Measurement
Title: *Assessing Readers Struggling to Comprehend Multiple Sources of Information*

FY 2004 AWARDS

• **Name of Institution:** University at Buffalo, The State University of New York
Principal Investigator: James Collins
Goal: Development
Title: *Writing Intensive Reading Comprehension: Effects of Comprehension Instruction With and Without Integrated Writing Instruction on Fourth and Fifth Grade Students' Reading Comprehension and Writing Performance*

• **Name of Institution:** University of Kansas
Principal Investigator: Michael Hock
Goal: Development
Title: *Improving Adolescent Reading Comprehension: A Multi-Strategy Reading Intervention*

• **Name of Institution:** University of Memphis
Principal Investigator: Danielle McNamara
Goal: Development
Title: *iSTART: Interactive Strategy Trainer for Active Reading and Thinking*

- Name of Institution:** University of Minnesota
Principal Investigator: Paul van den Broek
Co-Principal Investigators: Kristen McMaster, David Rapp
Goal: Development
Title: *Improving Comprehension of Struggling Readers: Connecting Cognitive Science and Educational Practice*
- Name of Institution:** University of Pittsburgh
Principal Investigator: Margaret McKeown
Co-Principal Investigator: Isabel Beck
Goal: Development
Title: *Toward More Meaningful Decisions About Comprehension Instruction (2004-2007)*
- Name of Institution:** Florida Atlantic University
Principal Investigator: Nancy Romance
Co-Principal Investigator: Michael Vitale (Eastern Carolina University)
Goal: Efficacy and Replication
Title: *Embedding Knowledge-Focused Reading Comprehension Strategies in Cumulative Content-Area Instruction in Grades 3-4-5: An Assessment of Immediate, Transfer, and Long-Term Impact on Reading Achievement*
- Name of Institution:** Washington Research Institute
Principal Investigator: Patricia Vadasy
Goal: Efficacy and Replication
Title: *Quick Reads Supplementary Tutoring Efficacy and Replication Trials*
- Name of Institution:** University of Iowa
Principal Investigator: Richard Hurtig
Goal: Scale-Up Evaluations
Title: *Breakthrough to Literacy in the Chicago Public Schools: A Large Scale Evaluation of the Effectiveness of a Reading Comprehension Intervention*

• **Name of Institution:** Vanderbilt University
Principal Investigator: Douglas Fuchs
Co-Principal Investigators: Kristen McMaster (University of Minnesota), Laura Saenz (University of Texas-Pan American)
Goal: Scale-Up Evaluations
Title: *Scaling Up Peer Assisted Learning Strategies to Strengthen Reading Achievement*

• **Name of Institution:** Educational Testing Service
Principal Investigator: John Sabatini
Goal: Measurement
Title: *Developing Reading Comprehension Assessments Targeting Struggling Readers*

• **Name of Institution:** Northern Illinois University
Principal Investigator: Joseph Magliano
Co-Principal Investigator: Keith Millis
Goal: Measurement
Title: *Assessing Reading Comprehension With Verbal Protocols and Latent Semantic Analysis*

• **Name of Institution:** University of Colorado at Boulder
Principal Investigator: Barbara Wise
Goal: Measurement
Title: *ICARE: Independent Comprehensive Adaptive Reading Evaluation System*

FY 2003 AWARDS

• **Name of Institution:** Carnegie Mellon University
Principal Investigator: James Callan
Co-Principal Investigators: Maxine Eskenazi, Charles Perfetti (University of Pittsburgh)
Title: *Reader-Specific Lexical Practice for Improved Reading Comprehension*

• **Name of Institution:** The Pennsylvania State University
Principal Investigator: Bonnie Meyer
Co-Principal Investigators: Kay Wijekumar, Wendy Middlemiss
Title: *Intelligent Tutoring Using the Structure Strategy to Improve Reading Comprehension of Middle School Students*

• **Name of Institution:** Teachers College, Columbia University
Principal Investigator: Joanna Williams
Title: *Teaching Elementary Students to Comprehend Expository Text*

• **Name of Institution:** University of Connecticut
Principal Investigator: Michael Coyne
Title: *Project VITAL: Vocabulary Intervention Targeting At-Risk Learners (2003-2007)*

• **Name of Institution:** University of Illinois at Urbana-Champaign
Principal Investigator: Richard Anderson
Title: *Improving Comprehension and Writing Through Reasoned Argumentation*

• **Name of Institution:** University of Illinois at Urbana-Champaign
Principal Investigator: Georgia Garcia
Co-Principal Investigators: Barbara Taylor (University of Minnesota), David Pearson (University of California, Berkeley)
Title: *Instruction of Reading Comprehension: Cognitive Strategies Or Cognitive Engagement (2003-2007)*

• **Name of Institution:** Florida State University
Principal Investigator: Richard Wagner
Title: *Origins of Individual and Developmental Differences in Reading Comprehension (2003-2007)*

FY 2002 AWARDS

• **Name of Institution:** CAST, Inc.

Principal Investigator: Bridget Dalton

Co-Principal Investigator: Annemarie Palincsar (University of Michigan)

Title: *Reading to Learn: Investigating General and Domain Specific Supports in a Technology-Rich Environment With Diverse Readers Learning From Informational Text* (2002-2006)

• **Name of Institution:** Ohio State University

Principal Investigator: Ian Wilkinson

Co-Principal Investigators: Anna Soter, P. Karen Murphy (The Pennsylvania State University)

Title: *Group Discussions as a Mechanism for Promoting High-Level Comprehension of Text* (2002-2006)

• **Name of Institution:** Pacific Institutes for Research

Principal Investigator: Scott Baker

Co-Principal Investigators: David Chard, Lana Edwards Santoro

Title: *The Story Read Aloud Project: The Development of an Innovative Instructional Approach to Promote Comprehension and Vocabulary in First Grade Classrooms* (2002-2005)

• **Name of Institution:** University of Colorado at Boulder

Principal Investigator: Thomas Landauer

Title: *Research On and With Novel Educational Technologies for Comprehension* (2002-2006)

• **Name of Institution:** University of Pittsburgh

Principal Investigators: Charles Perfetti, Erik Reichle

Co-Principal Investigators: Isabel Beck, Margaret McKeown

Title: *Word Learning and Comprehension: New Laboratory Approaches and Classroom Studies* (2002-2006)

- **Name of Institution:** University of Memphis
Principal Investigator: Danielle McNamara
Co-Principal Investigators: Art Graesser, Max Louwerse
Title: *Coh-Metrix: Automated Cohesion and Coherence Scores to Predict Text Readability and Facilitate Comprehension (2002-2007)*

SOCIAL AND BEHAVIORAL CONTEXT FOR ACADEMIC LEARNING

FY 2008 AWARDS

- **Name of Institution:** DePaul University
Principal Investigator: Kathryn Grant
Goal: Development
Title: *Development of an Intervention to Improve Academic Outcomes for Low-Income Urban Youth Through Instruction in Effective Coping Supported by Mentoring Relationships*

- **Name of Institution:** Rutgers, The State University of New Jersey
Principal Investigator: Linda Reddy
Goal: Measurement
Title: *Development and Validation of a Teacher Progress Monitoring Scale for Elementary School Teachers*

- **Name of Institution:** New York University
Principal Investigator: Sandra McClowry
Goal: Efficacy and Replication
Title: *Testing the Efficacy of INSIGHTS in Enhancing the Academic Learning Context*

- **Name of Institution:** Johns Hopkins University
Principal Investigator: Nicholas Ialongo
Goal: Efficacy and Replication
Title: *A Randomized Controlled Trial of the Combination of Two Preventive Interventions*

- **Name of Institution:** Oregon State University
Principal Investigator: Brian Flay
Goal: Efficacy and Replication
Title: *The Chicago Social and Character Development Trial: Extension to Grade 8*

SOCIAL AND CHARACTER DEVELOPMENT

FY 2003 AWARDS

- **Name of Institution:** Mathematica Policy Research, Inc.
Principal Investigator: John Burghardt
Title: *Social and Character Development National Evaluation Contract*

- **Name of Institution:** Children's Institute
Principal Investigators: Deborah Johnson, Hugh Crean
Program Under Evaluation: Promoting Alternative Thinking Strategies
Title: *PATHS to Children's Social and Character Development: A Clinical Trial of a School-Based Preventive Intervention*

- **Name of Institution:** Oregon State University
Principal Investigators: Brian Flay, David DuBois (University of Illinois at Chicago), Carol Allred (Positive Action, Inc.)
Program Under Evaluation: Positive Action
Title: *Positive Action for Social and Character Development*

- **Name of Institution:** New York University
Principal Investigators: J. Lawrence Aber, Stephanie Jones (Fordham University), Joshua Brown
Program Under Evaluation: The 4Rs: Reading, Writing, Respect, and Resolution
Title: *Reading, Writing, Respect, and Resolution: The Impact of a Social and Character Development and Literacy Program on Teachers and Children*

• **Name of Institution:** University at Buffalo, The State University of New York

Principal Investigators: William Pelham, Jr., Greta Massetti

Program Under Evaluation: Academic and Behavioral Competencies Model

Title: *Randomized Trial of the School-Wide Academic and Behavioral Competencies Program in Urban, Low-Income Public School Settings*

• **Name of Institution:** University of Maryland, College Park

Principal Investigator: Gary Gottfredson

Program Under Evaluation: Second Step

Title: *Character Education Inquiry: A Multi-School Research Initiative*

• **Name of Institution:** University of North Carolina at Chapel Hill

Principal Investigators: Thomas Farmer, Mark Fraser

Program Under Evaluation: Competence Support Program

Title: *Social and Character Development in Rural Youth: The Competence Support Program*

• **Name of Institution:** Vanderbilt University

Principal Investigators: Leonard Bickman, Katie Smith

Program Under Evaluation: Love in a Big World

Title: *An Evaluation of the Character Development Program Love in a Big World*

TEACHER QUALITY: MATHEMATICS AND SCIENCE EDUCATION

FY 2008 AWARDS

• **Name of Institution:** University of California, San Diego

Principal Investigator: Loren Thompson

Goal: Development

Title: *Education Research: BioBridge Teacher Quality--The BioBridge Teacher Professional Development (PD)*

- **Name of Institution:** University of South Florida
Principal Investigator: Robert Potter
Co-Principal Investigators: Dana Zeidler (University of South Florida), Andi Ringer (Hillsborough County Public Schools)
Goal: Development
Title: *Leadership for Integrated Middle-School Science (LIMSS)*

FY 2007 AWARDS

- **Name of Institution:** Mills College
Principal Investigator: Catherine Lewis
Goal: Development
Title: *Improving the Mathematical Content Base of Lesson Study: Design and Test of a Research-Based Toolkit*

- **Name of Institution:** Milwaukee School of Engineering
Principal Investigator: Ann Batiza
Co-Principal Investigator: Mary Gruhl (University of Wisconsin-Milwaukee)
Goal: Development
Title: *Effect of the SUN Teacher Workshop on Student Achievement*

- **Name of Institution:** WestEd
Principal Investigator: Steven Schneider
Co-Principal Investigator: Cynthia Greenleaf
Goal: Development
Title: *Understanding Science: Improving Achievement of Middle School Students in Science*

- **Name of Institution:** University of Virginia
Principal Investigator: Sara Rimm-Kaufman
Goal: Efficacy and Replication
Title: *The Efficacy of the Responsive Classroom Approach for Improving Teacher Quality and Children's Academic Performance*

FY 2006 AWARDS

• **Name of Institution:** University of California, Berkeley
Principal Investigator: Roland Tharp
Co-Principal Investigator: Trish Stoddard (University of California, Santa Cruz)
Goal: Development
Title: *Integrating Science and Diversity Education: A Model of Pre-Service Elementary Teacher Preparation*

• **Name of Institution:** LessonLab, Inc.
Principal Investigator: Nicole Kersting
Co-Principal Investigators: Rosella Santagata, Karen Givvin
Goal: Measurement
Title: *Using Video Clips of Classroom Instruction as Item Prompts to Measure Teacher Knowledge of Teaching Mathematics: Instrument Development and Validation*

FY 2005 AWARDS

• **Name of Institution:** Allegheny Singer Research Institute
Principal Investigator: Luanne Hall-Stoodley
Co-Principal Investigator: Michelle Zuckerman
Goal: Development
Title: *Mentoring Teachers Through Pedagogical Content Knowledge Development*

• **Name of Institution:** Education Development Center, Inc.
Principal Investigator: Nancy Clark-Chiarelli
Co-Principal Investigator: Jess Gropen
Goal: Development
Title: *Assessing the Potential Impact of a Professional Development Program in Science on Head Start Teachers and Children*

• **Name of Institution:** University of Nebraska-Lincoln
Principal Investigator: Elizabeth Doll
Co-Principal Investigators: Ron Bonnstetter, Roger Bruning, Christy Horn
Goal: Development
Title: *Evolving Inquiry: An Experimental Test of a Science Instruction Model for Teachers in Rural, Culturally Diverse Schools*

• **Name of Institution:** University of Toledo
Principal Investigator: Carla Johnson
Co-Principal Investigator: Jamison Fargo (Utah State University)
Goal: Development
Title: *Utah's Improving Science Teacher Quality Initiative*

• **Name of Institution:** South Carolina Department of Education
Principal Investigator: Christina Schneider
Goal: Efficacy and Replication
Title: *Investigating the Efficacy of a Professional Development Program in Classroom Assessment for Middle School Reading and Mathematics*

• **Name of Institution:** SRI International
Principal Investigator: William Penuel
Goal: Efficacy and Replication
Title: *Comparing the Efficacy of Three Approaches to Improving Teaching Quality in Science Education: Curriculum Implementation, Design, and Adaptation*

• **Name of Institution:** University of South Florida
Principal Investigator: Kathryn Borman
Co-Principal Investigators: Kim Davis (District School Board of Pasco County), Sherri Steffen (Teaching SMART and Girls Inc., Rapid City)
Goal: Efficacy and Replication
Title: *Replication and Outcomes of the Teaching SMART® Program in Elementary Science Classrooms*

FY 2004 AWARDS

• **Name of Institution:** DePaul University

Principal Investigator: Barbara Radner

Goal: Development

Title: *Algebra Connections: Teacher Education in Clear Instruction and Responsive Assessment of Algebra Patterns and Problem Solving*

• **Name of Institution:** Educational Testing Service

Principal Investigator: Richard Tannenbaum

Goal: Measurement

Title: *The Relationship Between Mathematics Teachers' Content Knowledge and Students' Mathematics Achievement: Exploring the Predictive Validity of the Praxis Series Middle School Mathematics Test*

FY 2003 AWARDS

• **Name of Institution:** LessonLab Inc.

Principal Investigator: James Stigler

Title: *Improving Achievement by Maintaining the Learning Potential of Rich Mathematics Problems: An Experimental Study of a Video- and Internet-Based Professional Development Program*

TEACHER QUALITY: READING AND WRITING

FY 2008 AWARDS

• **Name of Institution:** University of Michigan

Principal Investigator: Joanne Carlisle

Goal: Measurement

Title: *Development of an Interactive, Multimedia Assessment of Teachers' Knowledge of Early Reading*

• **Name of Institution:** National Bureau of Economic Research

Principal Investigator: Jesse Rothstein

Goal: Measurement

Title: *Value-Added Models and the Measurement of Teacher Quality: Tracking or Causal Effects?*

- **Name of Institution:** University of Pittsburgh
- Principal Investigator:** Linda Kucan
- Co-Principal Investigators:** Annemarie Palinscar (University of Michigan)
- Goal:** Development
- Title:** *The Iterative Design of Modules to Support Reading Comprehension Instruction*

FY 2007 AWARDS

- **Name of Institution:** Purdue University
- Principal Investigator:** Douglas Powell
- Co-Principal Investigator:** Karen Diamond
- Goal:** Development
- Title:** *Classroom Links to Vocabulary and Phonological Sensitivity Skills*

FY 2006 AWARDS

- **Name of Institution:** California State University, Long Beach
- Principal Investigator:** Claude Goldenberg
- Goal:** Development
- Title:** *Standards-Based Differentiated ELD Instruction to Improve English Language Arts Achievement for English Language Learners*

- **Name of Institution:** University at Albany, State University of New York
- Principal Investigator:** Donna Scanlon
- Co-Principal Investigators:** Lynn Gelzheiser, Frank Vellutino, Virginia Goatley
- Goal:** Development
- Title:** *Enhancing Knowledge Related to Research-Based Early Literacy Instruction Among Pre-Service Teachers*

- **Name of Institution:** University of California, Irvine
- Principal Investigator:** Carol Olson
- Goal:** Efficacy and Replication
- Title:** *The Pathway Project: A Cognitive Strategies Approach to Reading and Writing Instruction for Teachers of Secondary English Language Learners*

• **Name of Institution:** University of Pittsburgh
Principal Investigator: Lindsay Clare Matsumura
Co-Principal Investigators: Brian Junker (Carnegie Mellon University), Lauren Resnick, Donna DiPrima Bickel
Goal: Efficacy and Replication
Title: *Content-Focused CoachingSM for High Quality Reading Instruction*

FY 2005 AWARDS

• **Name of Institution:** Florida State University
Principal Investigator: Alysia Roehrig
Co-Principal Investigators: Mary Brownell (University of Florida), Christopher Schatschneider, Joseph Torgesen
Goal: Identification
Title: *Identifying the Conditions Under Which Large Scale Professional Development Policy Initiatives are Related to Teacher Knowledge, Instructional Practices, and Student Reading Outcomes*

• **Name of Institution:** Success for All Foundation
Principal Investigator: Nancy Madden
Goal: Development
Title: *Embedded Classroom Multimedia: Improving Implementation Quality and Student Achievement in a Cooperative Writing Program*

• **Name of Institution:** Texas A&M University
Principal Investigator: Deborah Simmons
Co-Principal Investigators: William Rupley, Sharon Vaughn (University of Texas at Austin)
Goal: Development
Title: *Enhancing the Quality of Expository Text Instruction Through Content and Case-Situated Professional Development*

• **Name of Institution:** University of Texas at San Antonio
Principal Investigator: Misty Sailors
Co-Principal Investigator: Janis Harmon
Goal: Development
Title: *Teaching Teachers to Teach Critical Reading Strategies (CREST) Through an Intensive Professional Development Model*

• **Name of Institution:** Education Development Center, Inc.
Principal Investigator: Nancy Clark-Chiarelli
Goal: Efficacy and Replication
Title: *Examining the Efficacy of Two Models of Preschool Professional Development in Language and Literacy*

• **Name of Institution:** WestEd
Principal Investigator: Cynthia Greenleaf
Co-Principal Investigators: Steve Schneider, Joan Herman (University of California, Los Angeles)
Goal: Efficacy and Replication
Title: *A Randomized Controlled Study of the Efficacy of Reading Apprenticeship Professional Development for High School History and Science Teaching and Learning*

• **Name of Institution:** University of Michigan
Principal Investigator: Joanne Carlisle
Co-Principal Investigator: Brian Rowan
Goal: Measurement
Title: *Assessment of Pedagogical Knowledge of Teachers of Reading*

• **Name of Institution:** Utah State University
Principal Investigator: D. Ray Reutzel
Co-Principal Investigator: Janice Dole (University of Utah)
Goal: Measurement
Title: *Connecting Primary Grade Teacher Knowledge to Primary Grade Student Achievement: Developing the Evidence-Based Reading/Writing Teacher Knowledge Assessment System*

FY 2004 AWARDS

• **Name of Institution:** Purdue University

Principal Investigator: Douglas Powell

Co-Principal Investigator: Karen Diamond

Goal: Development

Title: *Professional Development in Early Reading*

• **Name of Institution:** University of North Carolina at Chapel Hill

Principal Investigators: Virginia Buysse, Dina Castro

Goal: Development

Title: *Improving Teacher Quality to Address the Language and Literacy Skills of Latino Children in Pre-Kindergarten Programs*

• **Name of Institution:** University of Chicago

Principal Investigator: Anthony Bryk

Goal: Efficacy and Replication

Title: *Can Literacy Professional Development be Improved With Web-Based Collaborative Learning Tools?: A Randomized Field Trial*

• **Name of Institution:** Florida State University

Principal Investigators: Douglas Harris, Tim Sass

Goal: Measurement

Title: *Assessing Teacher Effectiveness: How Can We Predict Who Will be a High Quality Teacher?*

• **Name of Institution:** RAND Corporation

Principal Investigator: Richard Buddin

Goal: Measurement

Title: *Teacher Licensure Tests and Student Achievement*

FY 2003 AWARDS

• **Name of Institution:** Haskins Laboratories

Principal Investigators: Susan Brady, Marjorie Gillis

Title: *Mastering Reading Instruction: A Professional Development Project for First Grade Teachers*

• **Name of Institution:** Instructional Research Group
Principal Investigator: Russell Gersten
Title: *Teacher Quality Study: An Investigation of the Impact of Teacher Study Groups as a Means to Enhance The Quality of Reading Instruction for First Graders in High Poverty Schools in Two States*

• **Name of Institution:** University of Michigan
Principal Investigator: Joanne Carlisle
Title: *Identifying Key Components of Effective Professional Development in Reading for First Grade Teachers and Their Students*

UNSOLICITED AND OTHER AWARDS

FY 2008 AWARDS

• **Name of Institution:** Northwestern University
Principal Investigator: Larry Hedges
Title: *Representing and Combining the Results of Randomized Experiments in Education*

• **Name of Institution:** Northwestern University
Principal Investigator: Larry Hedges
Co-Principal Investigator: Mark Constatas
Title: *The Continued Development of the Society for Research on Educational Effectiveness (SREE)*

• **Name of Institution:** RAND Corporation
Principal Investigator: Bing Han
Title: *Simultaneous Statistical Inference in Evaluating Teacher Performance*

• **Name of Institution:** Northwestern University
Principal Investigator: Larry Hedges
Co-Principal Investigators: David Cordray, Mark Lipsey
Title: *Proposal for an RCT Training Institute*

FY 2007 AWARDS

• **Name of Institution:** Educational Testing Service

Principal Investigator: John Sabatini

Title: *Assessing Reading in the 21st Century Conference: Aligning and Applying Advances in the Reading and Measurement Sciences*

• **Name of Institution:** Educational Testing Service

Principal Investigator: Sandip Sinharay

Title: *A Study of the Missing Data Assumptions of the Non-equivalent Groups with Anchor Test Design and Their Implications for Test Equating*

• **Name of Institution:** Northwestern University

Principal Investigator: Thomas Cook

Title: *Improving Better Quasi-Experimental Practice*

• **Name of Institution:** Northwestern University

Principal Investigator: Greg J. Duncan

Title: *The Effects of Disadvantaged Schools and Neighborhoods on the Education of Low-Income Youth*

• **Name of Institution:** University of California, Los Angeles

Principal Investigator: Eva L. Baker, Kilchan Choi

Title: *Latent Variable Regression Four-Level/Five-Level Hierarchical Models for Experimental/Quasi-Experimental Studies, Evaluation Studies, and Teacher and/or School Accountability*

• **Name of Institution:** University of Illinois at Chicago

Principal Investigator: Jennifer Wiley

Title: *AWARDS for Research in Cognition and Student Learning*

• **Name of Institution:** University of Iowa

Principal Investigator: Andrew Ho

Co-Principal Investigator: Stephen Dunbar

Title: *Evaluating the Impact of the Choice of Test Score Scale on the Measurement of Individual Student Growth*

• **Name of Institution:** University of Michigan
Principal Investigator: Kevin F. Miller
Title: *Modeling and Developing Situation Awareness in Teachers*

FY 2006 AWARDS

• **Name of Institution:** Vanderbilt University
Principal Investigator: David Cordray
Title: *Measures of Fidelity of Implementation*

• **Name of Institution:** University of Washington
Principal Investigator: Dan Goldhaber
Co-Principal Investigator: Bethany Gross
Title: *Estimation of Teacher Effects*

• **Name of Institution:** American Institutes for Research
Principal Investigator: Harold Doran
Title: *Psychometrics and Value Added Modeling*

• **Name of Institution:** Council of Great City Schools
Principal Investigator: Michael Casserly
Co-Principal Investigator: Jason Snipes
Title: *Research Training for Policy*

FY 2005 AWARDS

• **Name of Institution:** Syracuse University
Principal Investigator: Benita Blachman
Co-Principal Investigator: Christopher Schatschneider
Title: *A One-Year Follow-Up of Evidence-Based Early Reading Intervention Provided by Kindergarten and First Grade Teachers (2005-2007)*

FY 2004 AWARDS

• **Name of Institution:** Cornell University
Principal Investigators: Mark Conostas, Larry Hedges
Title: *Society for the Advancement of Education Sciences: A Proposal for a New Scientific Organization*

• **Name of Institution:** Northwestern University
Principal Investigator: Larry Hedges
Title: *Representation and Combination of the Results of Multi-Site Randomized Experiments in Education*

• **Name of Institution:** RAND Corporation
Principal Investigator: J. R. Lockwood
Title: *Enhanced Value-Added Models for Estimating Teacher Effects*

FY 2003 AWARDS

• **Name of Institution:** Georgetown University
Principal Investigator: Sharon Ramey
Curriculum: Building Language for Literacy and Core Knowledge
Title: *Building Language for Literacy: A Comparison of Curricula and Coaching Conditions for Pre-Kindergarten and Head Start Classrooms*

• **Name of Institution:** Southern Methodist University
Principal Investigator: Patricia Mathes
Co-Principal Investigator: Carolyn Denton (University of Texas at Austin)
Interagency Education Research Initiative Program
Title: *Scaling-Up Effective Intervention for Preventing Reading Difficulties in Young Children*

FY 2002 AWARDS

• **Name of Institution:** Johns Hopkins University (2002-2007)
Principal Investigator: James McPartland
Interagency Education Research Initiative Program
Title: *Implementation and Impact of Reading, Mathematics, and Science Interventions for Middle and High School Students in the Context of Talent Development Reforms*

• **Name of Institution:** University of Texas Health Science Center at Houston (2002-2007)

Principal Investigator: Susan Landry

Interagency Education Research Initiative Program

Title: *Scaling Up a Language and Literacy Development Program at the Pre-Kindergarten Level*

• **Name of Institution:** Florida State University (2002-2007)

Principal Investigator: Barbara Foorman

Interagency Education Research Initiative Program

Title: *Scaling Up an Assessment-Driven Intervention Using the Internet and Hand-Held Computers*

FUNDING OPPORTUNITIES

Visit <http://ies.ed.gov/ncer/funding/> for more information about the National Center for Education Research funding opportunities.