

# National Center for Education Research

## Projects and Programs

2002 – 2006



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 have experienced tremendous growth. As of June 2006, we are supporting more than 200 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 research on curriculum and instruction in reading, writing, mathematics, and science; teacher quality; education leadership; education policy, finance, and systems; high school reform; preschool curricula; social and character development interventions; student learning; and research methods, NCER currently supports 10 predoctoral research training programs in the education sciences, 10 postdoctoral training programs, and 10 National Research and Development Centers.

I am proud of the work that is being accomplished by NCER researchers. This booklet is a compilation of all the research grants and contracts and the training grants that NCER has awarded since our first year. The projects listed here 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

**National Center for Education Research  
Projects and Programs  
2002 - 2006**

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# COGNITION AND STUDENT LEARNING

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## FY 2006 AWARDS

- **Name of Institution:** Carnegie Mellon University  
**Principal Investigator:** David Klahr  
**Co-Principal Investigator:** Junlei Li  
**Goal:** Development  
**Title:** *Training in Experimental Design: Developing Scalable and Adaptive Computer-based Science Instruction*
  
- **Name of Institution:** Research Foundation of The 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:** The Trustees of Columbia University in the City of New York  
**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 Research Foundation  
**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:** The University of North Carolina at Chapel Hill  
**Principal Investigator:** Stephen Hooper  
**Co-Principal Investigator:** Nathan Vandergrift  
**Goal:** Efficacy  
**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  
**Goal:** Efficacy  
**Title:** *Test-Enhanced Learning in the Classroom*

## FY 2005 AWARDS

- **Name of Institution:** Fordham University  
**Principal Investigator:** William Whitten  
**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:** Michigan State 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:** Efficacy  
**Title:** *Improving Children's Pure Numerical Estimation*
- **Name of Institution:** Duke University  
**Principal Investigator:** David Rabiner  
**Goal:** Efficacy  
**Title:** *A Randomized Trial of Two Promising Interventions for Students with Attention Problems*
- **Name of Institution:** Northern Illinois University  
**Principal Investigator:** M. Anne Britt  
**Goal:** Efficacy  
**Title:** *Creating a Usable Environment to Teach Argument Comprehension and Production Skills*

## 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  
**Goal:** Development  
**Title:** *The Neural Markers of Effective Learning*
  
- **Name of Institution:** Carnegie Mellon University  
**Principal Investigator:** David Klahr  
**Goal:** Development  
**Title:** *From Cognitive Models of Reasoning to Lesson Plans for Inquiry*
  
- **Name of Institution:** Columbia University  
**Principal Investigator:** Janet Metcalfe  
**Goal:** Development  
**Title:** *Study Enhancement Based on Principles of Cognitive Science*
  
- **Name of Institution:** George Mason University  
**Principal Investigator:** Robert Pasnak  
**Goal:** Development  
**Title:** *Increasing Learning By Promoting Early Abstract Thought*
  
- **Name of Institution:** University of California, Los Angeles  
**Principal Investigator:** Keith Holyoak  
**Goal:** Development  
**Title:** *A Multidisciplinary Study of Analogical Transfer in Children's Mathematical Learning*
  
- **Name of Institution:** University of Illinois at Chicago  
**Principal Investigator:** Jennifer Wiley  
**Co-Principal Investigator:** Keith Thiede  
**Goal:** Development  
**Title:** *Improving Monitoring Accuracy Improves Learning From Text*

- **Name of Institution:** University of Maryland, College Park  
**Principal Investigator:** Thomas Wallsten  
**Goal:** Development  
**Title:** *Computer-Assisted Instruction for Learning and Long-Term Retention Based on Recent Cognitive and Metacognitive Findings*
- **Name of Institution:** University of Pittsburgh  
**Principal Investigator:** Erik Reichle  
**Co-Principal Investigator:** Jonathan Schooler (University of British Columbia)  
**Goal:** Development  
**Title:** *Lapses in Meta-Cognition During Reading: Understanding Comprehension Failure*
- **Name of Institution:** University of Wisconsin - Madison  
**Principal Investigator:** Arthur Glenberg  
**Co-Principal Investigator:** Joel Levin (University of Arizona)  
**Goal:** Development  
**Title:** *Training Indexing To Enhance Meaning Extraction in Young Readers*
- **Name of Institution:** Washington University in St. Louis  
**Principal Investigator:** Henry Roediger, III  
**Co-Principal Investigators:** Kathleen McDermott, Mark McDaniel  
**Goal:** Development  
**Title:** *Test-Enhanced Learning*
- **Name of Institution:** Yale University  
**Principal Investigator:** Robert Sternberg  
**Co-Principal Investigator:** Linda Jarvin  
**Goal:** Development  
**Title:** *Understanding Students' Mathematical Competencies: An Exploration of the Impact of Contextualizing Mathematical Problems*

## 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*
- **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*
- **Name of Institution:** Northern Illinois University  
**Principal Investigator:** M. Anne Britt  
**Title:** *Improving Students' Comprehension and Construction of Arguments*
- **Name of Institution:** Northwestern University  
**Principal Investigator:** David Uttal  
**Co-Principal Investigator:** Judy DeLoache (University of Virginia)  
**Title:** *Learning From Symbolic Objects*



- **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*
  
- **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)*

## EDUCATION LEADERSHIP

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### FY 2005 AWARDS

- **Name of Institution:** The Board of Regents of the University of Wisconsin  
**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*
  
- **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  
**Title:** *Assessing the Impact of Principals' Professional Development: An Evaluation of the National Institute for School Leadership*

### FY 2006 AWARDS

- **Name of Institution:** Research Foundation of 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'*
- **Name of Institution:** National Bureau of Economic Research  
**Principal Investigator:** Thomas Kane  
**Co-Principal Investigators:** Justine Hastings, Douglas Staiger  
**Goal:** Efficacy  
**Title:** *Implementing Public School Choice in Charlotte, NC: Impacts on Student Outcomes, Competitiveness and Racial Segregation*
- **Name of Institution:** Pennsylvania State University  
**Principal Investigator:** William Hartman  
**Goal:** Cost Accounting  
**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*
- **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*

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

## HIGH SCHOOL REFORM

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### 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 Post-Secondary Outcomes*
- **Name of Institution:** The University of Chicago  
**Principal Investigator:** Elaine Allensworth  
**Co-Principal Investigator:** Valerie Lee  
**Goal:** Efficacy  
**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  
**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:** Effectiveness  
**Title:** *Examining the Effectiveness of Scaling Up the First Things First Reform Approach*

## MATHEMATICS AND SCIENCE EDUCATION

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### 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 (Michigan State 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:** Janet Carlson Powell  
**Co-Principal Investigator:** Joseph Taylor  
**Goal:** Efficacy  
**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 Baroody  
**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  
**Title:** *Classroom Connectivity in Promoting Mathematics and Science Achievement*
- **Name of Institution:** WestEd  
**Principal Investigator:** Carne Barnett-Clarke  
**Goal:** Efficacy  
**Title:** *Math Pathways and Pitfalls Lessons for K-7 Students: Improving Mathematics Achievement for English Language Learners*
- **Name of Institution:** Regents of the University of California  
**Principal Investigator:** Prentice Starkey (University of California, Berkeley)  
**Co-Principal Investigator:** Alice Klein  
**Goal:** Effectiveness Evaluation  
**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:** Effectiveness Evaluation  
**Title:** *Scaling Up TRIAD: Teaching Early Mathematics for Understanding with Trajectories and Technologies*

## FY 2004 AWARDS

- **Name of Institution:** Educational Testing Service  
**Principal Investigator:** Dylan Wiliam  
**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:** Ellen Mandinach  
**Goal:** Efficacy  
**Title:** *An Examination of the Impact of Big Math for Little Kids on Pre-K 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*

## NATIONAL RESEARCH AND DEVELOPMENT CENTERS

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### FY 2006 AWARDS

- **Name of Institution:** Teachers College, Columbia University  
**Topic:** Post-Secondary Education and Training  
**Principal Investigator:** Thomas Bailey  
**Center Name:** *National Research Center on Preparing Low-Skilled Students to Succeed in College*
  
- **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 Research Center 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 & Local Education Policy  
**Principal Investigator:** James Guthrie  
**Co-Principal Investigator:** Matthew Springer  
**Center Name:** *National Center on 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:** *National Research and Development Center for English Language Learners*

### 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 Research and Development Center on School Choice, Competition, and Achievement*

## POSTDOCTORAL RESEARCH TRAINING PROGRAM

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### 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 Oregon  
**Training Director:** Robert Horner  
**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 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

### 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 Directors:** Mark Davison, 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 Pre-Doctoral 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 Directors:** James Spillane, Lindsay Chase-Lansdale, Greg Duncan  
**Title:** *Multidisciplinary Program in Education Sciences (MPES)*
- **Name of Institution:** University of Virginia  
**Training Directors:** Robert Pianta, 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

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### FY 2003 AWARDS

- **Name of Institution:** Mathematica Policy Research, Inc.  
**Principal Investigator:** John Love  
**Title:** *Preschool Curriculum Evaluation Research (PCER) National Evaluation Contract*
- **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*
  
- **Name of Institution:** University of California, Berkeley  
**Principal Investigator:** Anne Cunningham  
**Curriculum Under Evaluation:** Read, Set, Leap! (RSL)  
**Title:** *A Longitudinal Study of the Effectiveness of a Pre-K 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*
  
- **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*
  
- **Name of Institution:** University of California, Berkeley  
**Principal Investigator:** Prentice Starkey  
**Curriculum Under Evaluation:** Pre-K 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*
  
- **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 (ELLM)  
**Title:** *Evaluation of the Early Learning and Literacy 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*
  
- **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*

## READING AND WRITING

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### 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*
  
- **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, 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:** Deb 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  
**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  
**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, 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*
- **Name of Institution:** Florida Atlantic University  
**Principal Investigator:** Nancy Romance  
**Co-Principal Investigator:** Michael Vitale (Eastern Carolina University)  
**Goal:** Efficacy  
**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  
**Title:** *Quick Reads Supplementary Tutoring Efficacy and Replication Trials*
- **Name of Institution:** University of Iowa  
**Principal Investigator:** Richard Hurtig  
**Goal:** Effectiveness Evaluation  
**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:** Effectiveness Evaluation  
**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  
**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)  
**Goal:** Development  
**Title:** *Reader-Specific Lexical Practice for Improved Reading Comprehension*
- **Name of Institution:** Pennsylvania State University  
**Principal Investigator:** Bonnie Meyer  
**Co-Principal Investigators:** Kay Wijekumar, Wendy Middlemiss  
**Goal:** Development  
**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  
**Goal:** Development  
**Title:** *Teaching Elementary Students To Comprehend Expository Text*
- **Name of Institution:** University of Connecticut  
**Principal Investigator:** Michael Coyne  
**Goal:** Development  
**Title:** *Project VITAL: Vocabulary Intervention Targeting At-Risk Learners*
- **Name of Institution:** University of Illinois  
**Principal Investigator:** Richard Anderson  
**Goal:** Development  
**Title:** *Improving Comprehension and Writing Through Reasoned Argumentation*
- **Name of Institution:** University of Illinois  
**Principal Investigator:** Georgia Garcia  
**Co-Principal Investigators:** Barbara Taylor (University of Minnesota), David Pearson (University of California, Berkeley)  
**Goal:** Development  
**Title:** *Instruction of Reading Comprehension: Cognitive Strategies Or Cognitive Engagement*
- **Name of Institution:** Florida State University  
**Principal Investigator:** Richard Wagner  
**Goal:** Measurement  
**Title:** *Origins of Individual and Developmental Differences in Reading Comprehension*

## FY 2002 AWARDS

- **Name of Institution:** CAST, Inc.  
**Principal Investigator:** Bridget Dalton  
**Co-Principal Investigator:** Annemarie Palincsar (University of Michigan)  
**Goal:** Development  
**Title:** *Reading to Learn: Investigating General and Domain Specific Supports in a Technology-Rich Environment with Diverse Readers Learning From Informational Text*
- **Name of Institution:** Ohio State University  
**Principal Investigator:** Ian Wilkinson  
**Co-Principal Investigators:** Anna Soter, P. Karen Murphy (Pennsylvania State University)  
**Goal:** Development  
**Title:** *Group Discussions as a Mechanism for Promoting High-Level Comprehension of Text*
- **Name of Institution:** Pacific Institutes for Research  
**Principal Investigator:** Scott Baker  
**Co-Principal Investigators:** David Chard, Lana Edwards Santoro  
**Goal:** Development  
**Title:** *The Story Read Aloud Project: The Development of an Innovative Instructional Approach to Promote Comprehension and Cocabulary in First Grade Classrooms (2002-2005)*
- **Name of Institution:** University of Colorado  
**Principal Investigator:** Thomas Landauer  
**Goal:** Development  
**Title:** *Research on and with Novel Educational Technologies for Comprehension*
- **Name of Institution:** University of Pittsburgh  
**Principal Investigators:** Charles Perfetti, Erik Reichle  
**Co-Principal Investigators:** Isabel Beck, Margaret McKeown  
**Goal:** Development  
**Title:** *Word Learning and Comprehension: New Laboratory Approaches and Classroom Studies*
- **Name of Institution:** University of Memphis  
**Principal Investigator:** Danielle McNamara  
**Co-Principal Investigators:** Art Graesser, Max Louwerse  
**Goal:** Measurement  
**Title:** *Coh-Metrix: Automated Cohesion and Coherence Scores to Predict Text Readability and Facilitate Comprehension*



## SOCIAL AND CHARACTER DEVELOPMENT

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### 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, 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

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## FY 2006 AWARDS

- **Name of Institution:** The Regents of the University of California  
**Principal Investigator:** Roland Tharp (University of California, Berkeley)  
**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:** Erdosne Toth  
**Goal:** Development  
**Title:** *Mentoring Teachers Through Pedagogical Content Knowledge Development*
- **Name of Institution:** Education Development Center  
**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  
**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  
**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  
**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  
**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  
**Goal:** Development  
**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

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### FY 2006 AWARDS

- **Name of Institution:** California State University Long Beach Foundation  
**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:** Research Foundation of the 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:** The Regents of the University of California  
**Principal Investigator:** Carol Olson (University of California, Irvine)  
**Goal:** Efficacy  
**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 Matsamura  
**Co-Principal Investigators:** Brian Junker (Carnegie Mellon University), Lauren Resnick, Donna DiPrima Bickel  
**Goal:** Efficacy  
**Title:** *Content-Focused Coaching(SM) 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, Inc.  
**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  
**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  
**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:** Regents of the 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 Evidenced-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  
**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  
**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  
**Goal:** Development  
**Title:** *Mastering Reading Instruction: A Professional Development Project for First Grade Teachers*
  
- **Name of Institution:** Instructional Research Group  
**Principal Investigator:** Russell Gersten  
**Goal:** Development  
**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  
**Goal:** Efficacy  
**Title:** *Identifying Key Components of Effective Professional Development in Reading for First-Grade Teachers and Their Students*

## OTHER AWARDS

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### FY 2005

- **Name of Institution:** Syracuse University  
**Principal Investigator:** Benita Blachman  
**Co-Principal Investigator:** Christopher Schatschneider  
**Funded through the Unsolicited Awards Program**  
**Title:** *A One-Year Follow-Up of Evidence-Based Early Reading Intervention Provided by Kindergarten and First Grade Teachers*

### FY 2004

- **Name of Institution:** Cornell University  
**Principal Investigators:** Mark Conostas, Larry Hedges  
**Funded through the Unsolicited Awards Program**  
**Title:** *Society for the Advancement of Education Sciences: A Proposal for a New Scientific Organization*
- **Name of Institution:** Northwestern University  
**Principal Investigator:** Larry Hedges  
**Funded through the Unsolicited Awards Program**  
**Title:** *Representation and Combination of the Results of Multi-Site Randomized Experiments in Education*
- **Name of Institution:** Rand Corporation  
**Principal Investigator:** J. R. Lockwood  
**Funded through the Unsolicited Awards Program**  
**Title:** *Enhanced Value-Added Models for Estimating Teacher Effects*

### FY 2003

- **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-K and Head Start Classrooms*
- **Name of Institution:** McLean Hospital  
**Principal Investigator:** Gil Noam  
**Funded through the Interagency Education Research Initiative**  
**Title:** *The New 3R's – Reading, Resilience, and Relationships in After-School Programs (2003-2005)*
- **Name of Institution:** Southern Methodist University  
**Principal Investigator:** Patricia Mathes  
**Co-Principal Investigator:** Carolyn Denton (University of Texas at Austin)  
**Funded through the Interagency Education Research Initiative**  
**Title:** *Scaling-Up Effective Intervention for Preventing Reading Difficulties in Young Children*

## FY 2002

- **Name of Institution:** Johns Hopkins University  
**Principal Investigator:** James McPartland  
**Funded through the Interagency Education Research Initiative**  
**Title:** *Implementation & Impact of Reading, Mathematics & Science Interventions for Middle & High School Students in the Context of Talent Development reforms*
  
- **Name of Institution:** University of Texas Health Science Center at Houston  
**Principal Investigator:** Susan Landry  
**Funded through the Interagency Education Research Initiative**  
**Title:** *Scaling Up a Language and Literacy Development Program at the Pre-Kindergarten Level*
  
- **Name of Institution:** University of Texas Health Science Center at Houston  
**Principal Investigator:** Barbara Foorman  
**Funded through the Interagency Education Research Initiative**  
**Title:** *Scaling Up an Assessment-Driven Intervention Using the Internet and Hand-Held Computers*



# Funding Opportunities

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