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CONTACT US

Center on Instruction
Angela Penfold
Project Director

RMC Research Corporation
1000 Market St., Bldg. 2,
Portsmouth, NH 03801

603-422-8888
1-800-258-0802
Fax 603-436-9166
COI-info@rmcres.com
www.centeroninstruction.org

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Mathematics Resources

WebEx: The Common Core State Standards for Mathematics in Grades 9-12. The Center on Instruction hosted a webinar on June 29, 2011, featuring Fred Dillon, who provided an overview of the Common Core State Standards in Mathematics in Grades 9-12, with a focus on the mathematical practices and five "strands". He reviewed two models and their accelerated options and described a reasoning approach to the materials that includes significant math opportunities for all students. He also demonstrated different approaches for students with different abilities and the reality of the fourth year mathematics. The archived WebEx file and the PowerPoint presentation used in his presentation are available for download on the COI website [here](#).

Science Resources

Ready, Set, SCIENCE! Putting Research to Work in K-8 Science Classrooms. This resource from the National Academies Press is a classroom-focused companion to the National Research Council's *Taking Science to School* report (available on the COI website [here](#)) and serves to directly connect research-based knowledge of teaching and learning science with ways of supporting teacher practice in Grades K-8. It provides classroom case studies as concrete examples for applying the ideas from the report in various settings and illustrates how teachers can select and design rigorous and engaging instructional tasks, manage classrooms, and orchestrate productive discussions with culturally and linguistically diverse groups of students. The report can be read online free [here](#); there is a charge for a pdf file download or a hard copy of the 220-page document.

How People Learn: Brain, Mind, Experience, and School: Expanded Edition. This resource from the National Academies Press provides a synthesis on the science of learning from a cognitive science perspective and principles for instructional designs

and environments. It translates theories and insights into actions and practice, making a connection between classroom activities and learning behavior. It examines the implications for what we teach, how we teach it, and how we assess what our children learn. The report can be read online free [here](#); there is a charge for a pdf file download or a hard copy of the 374-page document.

How People Learn: Bridging Research and Practice. This resource provides a broad overview of research on learners and learning and on teachers and teaching. This resource provides a broad overview of research on learners and learning and on teachers and teaching. It identifies teachers as the key to change, while acknowledging that change at the classroom level is significantly impacted by overarching public policies. It highlights three key findings about how students gain and retain knowledge and discusses the implications of these findings for teaching and teacher preparation. The highlighted principles of learning are applicable to teacher education and professional development programs as well as to K-12 education. The report can be read online free [here](#); there is a charge for a pdf file download or a hard copy of the 78-page document.

eLearning Resources

An Exploration of At-Risk Learners and Online Education. This brief from iNACOL provides a sampling of 22 different online programs currently working with at-risk student populations and examines the strategies these programs are implementing, their experiences, and recommendations for programs facing similar challenges. It also describes a survey of 16 other K-12 online learning programs involving at-risk students to analyze these virtual schools' design and delivery methods to determine specific techniques being utilized to help at-risk students successfully complete online courses. It can be accessed from the COI website [here](#).

The Center on Instruction is one of five content centers that support the regional comprehensive centers in providing technical assistance to SEAs and districts/schools in need of improvement. The goal of COI is to supply much of the research-based information, products, guidance, analyses, and knowledge on instruction in reading, mathematics, science, special education, and English language learning that Regional Comprehensive Centers use when working with states. COI is funded by the Office of Elementary and Secondary Education and Office of Special Education Programs at the U.S. Department of Education under cooperative agreement # S283B050034.

Please send any suggestions or comments regarding our E-Newsletter to COI-info@rmcres.com. We would love to hear from you! If you've received this newsletter in error, or if you wish to unsubscribe, please email us at COI-info@rmcres.com and write "unsubscribe" in the subject line.

Center on Instruction, Angela Penfold, Project Director
[RMC Research Corporation](http://www.rmcresearch.com), 1000 Market St., Bldg. 2, Portsmouth, NH 03801
603-422-8888, 800-258-0802 Fax 603-436-9166
Email: COI-info@rmcres.com Website: <http://www.centeroninstruction.org>