

Title: Selected Websites to Support Implementation of the Common Core State Standards (CCSS) – Focus on Math

Date: August 2012

Question: What are some examples of math lessons aligned to Common Core (similar to the ones found on the Utah Education Network)?

Response:

We have included here a selection of websites and resources, with links, from federally funded centers and other reputable organizations. These websites provide a wealth of information on the Common Core State Standards (CCSS), including lesson plan examples and other resources focused on supporting local implementation of the CCSS (particularly those with a focus on high quality mathematics instruction). We also include a selection of CCSS-related resources from the California Department of Education (CDE) and other states in the Western Region that address your question. In fact, CDE recommends a number of the other resources listed in this memo to help inform local curriculum and lesson planning.

We have not done an evaluation of these resources and organizations themselves, but provide them for your own review.

For an overview of the Common Core State Standards Initiative and the specific Mathematics Standards by grade level, see the official CCSS website at <http://corestandards.org/>.

Resources & Websites

Achieve

<http://achieve.org/achieving-common-core>

From the CCSS authors, this site contains a variety of resources in four categories, including Instructional Support & Alignment Resources and Implementation Planning Tools. One relevant professional development module is titled "Math Shifts Module."

CCSS-CTE Classroom Talks

<http://achieve.org/ccss-cte-classroom-tasks>

Achieve and the National Association of State Directors of Career Technical Education jointly piloted a process where educators evaluated, modified, and/or developed instructional tasks that demonstrate how Career Technical Education (CTE) content can be leveraged throughout high school mathematics. This website provides tasks developed by high school and postsecondary mathematics and CTE educators, and validated by content experts in the CCSS in mathematics and the National Career Clusters Knowledge & Skills Statements. They were developed with the purpose of demonstrating how the CCSS and CTE Knowledge & Skills Statements can be integrated into classroom learning – and to provide classroom teachers with a truly authentic task for either mathematics or CTE courses.

ASCD's Common Core Resources

<http://educore.ascd.org/>

ASCD, a nonprofit educational leadership organization, received a \$3 million grant from the Gates Foundation to support implementation of Common Core State Standards over a three-year period, and it has become an endorsing partner in the initiative. EduCore is website ASCD has developed to provide tools for teaching the Common Core, including a selection of lesson plans in the Math Tools section. Also see ASCD's "Get to the Core" Webinar Series, including Common Core State Standards for Mathematics: Shifts and Instructional Implications (<http://www.ascd.org/professional-development/webinars/common-core-webinars.aspx>).

Center on Instruction (a federally funded Comprehensive Content Center)

<http://www.centeroninstruction.org/>

A list of resources related to the CCSS from the Center and other organizations is provided here. Resources include webinars, technical documents and reports including *Building the Foundation – A Suggested Progression of Sub-skills to Achieve the Reading Standards: Foundational Skills in the Common Core State Standards*. Specifically, there is one publication that is noteworthy: *Intensive Interventions for Students Struggling in Reading and Mathematics*, which provides research-based guidance that reflects "best practices" for intensifying instruction in reading and mathematics for students with significant learning difficulties in K-12, including students with disabilities.

Charles A. Dana Center

<http://ccsstoolbox.org/>

The Dana Center collaborates with local and national entities to improve education systems so that they foster opportunity for all students, particularly in mathematics and science. The center offers resources, tools, instructional materials and services to support educators in implementing the Common Core State Standards for Mathematics. They provide sample scope and sequence for the CCSS for Math for K-8, as well as for Algebra I, Geometry, and Algebra II. They also provide supporting standards-based mathematics instruction, lesson plans, articles, materials, classroom tools, strategies, and processes for standards-based mathematics education (<http://www.utdanacenter.org/mathtoolkit/support/standards.php>).

Common Core Tools

<http://commoncoretools.me/>

Bill McCallum is the Math Team Coordinator of the Common Core State Standards Initiative. This website is his blog site for mathematics. It publishes updates and reports on projects he and his team are involved in to support the implementation of the CCSS in Mathematics.

Council of Chief State School Officers (CCSSO)

<http://www.corestandards.org/resources>

Many downloadable documents are available, including key points of the ELA and Math standards documents. CCSSO also offers videos explaining in depth the standards and their implementation (http://www.ccsso.org/Resources/Digital_Resources/Common_Core_Implementation_Video_Series.html).

Note: The Common Core State Standards Initiative is a state-led effort coordinated by the National Governors Association Center for Best Practices (NGA Center) and the CCSSO.

Doing What Works (DWW)

<http://dww.ed.gov/>

DWW is a project of the U.S. Department of Education. The mission of the website is to translate research-based practices into practical tools to improve classroom instruction. Several resources and sections are related to implementation of the Common Core for math: Planning Fractions Instruction Using Common Core State Standards for Mathematics, Response to Intervention in Elementary-Middle Math, and Developing Effective Fractions Instruction for K-8.

Illustrative Mathematics

<http://illustrativemathematics.org/>

This resource provides guidance to states, assessment consortia, testing companies, and curriculum developers by illustrating the range and types of mathematical work that students experience in a faithful implementation of the Common Core State Standards, and by publishing other tools that support implementation of the standards. Specifically, the section on K-8 content standards with illustrations is noteworthy (<http://illustrativemathematics.org/standards/k8>).

Tip: For a list of all standards that have tasks linked to them, click “Show only illustrated standards” on the lower-right side of the screen. Or, select a grade-level or domain to see those standards.

Inside Mathematics

<http://www.insidemathematics.org/index.php/common-core-standards>

This site provides a resource for educators who struggle to provide the best mathematics instruction they can for their students. Resources include demonstration lesson, mathematics learning tools and resources to support classroom teachers, coaches and administrators’ daily practices. The link provided here is to a page with information linked to the CCSS.

Mathematics Assessment Project (MAP)

<http://map.mathshell.org/materials/index.php>

MAP is a collaboration between the University of California, Berkeley and the Shell Center team at the University of Nottingham, with support from the Bill & Melinda Gates Foundation. The Shell Centre is known around the world for its innovative work on mathematics education, including mathematics performance assessments developed by the Mathematics Assessment Project (MAP).

The Mathematics Common Core Coalition

<http://www.nctm.org/standards/mathcommoncore/>

The Coalition works to provide expertise and advice on issues related to the effective implementation of the Common Core State Standards for School Mathematics (CCSSM). Members include the National Council of Teachers of Mathematics (NCTM), the National Council of

Supervisors of Mathematics (NCSM), the Association of Mathematics Teacher Educators (AMTE), the Association of State Supervisors of Mathematics (ASSM), the Council of Chief State School Officers (CCSSO), the National Governors Association (NGA), the SMARTER Balanced Assessment Consortium, and the Partnership for the Assessment of Readiness for College and Careers (PARCC). The site includes material or links to information and resources that the organizations of the coalition are providing to the public and the education community about the CCSSM.

McREL

<http://www2.mcrel.org/lesson-plans/math/mathlessons.asp>

McREL, a research and development corporation, has been holding a Regional Educational Laboratory contract since its founding in 1966. Their website provides a math-lesson plan library.

Partnership for 21st Century Skills (P21): Common Core Toolkit

<http://www.p21.org>

The Common Core Toolkit is a free 48-page guide download (there is a nominal fee for hard copy). This resource helps map the CCSS to P21's comprehensive Framework for 21st Century Skills. It includes lesson vignettes to show what such alignment looks like in action, resources and links for states and districts working to put the standards into place, and information about assessment.

State Resources & Websites [Rel West Region]

ARIZONA

Progression Documents for the CCSS Mathematics Standards

<http://ime.math.arizona.edu/progressions/>

Narrative documents describing the progression of a topic across a number of grade levels, informed by research on children's cognitive development and by the logical structure of mathematics.

CALIFORNIA

California Department of Education (CDE)

All of the resources for common core implementation provided by the CDE begin on this page. They include, among others: a district planning template; frequently asked questions; materials for students, parents and guardians; and a link to resources for educators.

<http://www.cde.ca.gov/re/cc/>

Frequently Asked Questions: <http://www.cde.ca.gov/re/cc/ccssfaqs2010.asp>

California Common Core State Standards for Mathematics

<http://www.cde.ca.gov/re/cc/index.asp>

Appendix: Designing High School Mathematics Courses Based on the CCSS

<http://www.cde.ca.gov/re/cc/tl/whatareccss.asp>

Grade-Level Curriculum

<http://www.cde.ca.gov/ci/cr/cf/grlevelcurriculum.asp>

The grade-level curriculum documents are organized by individual grade levels and include information about transitioning to the Common Core State Standards.

Training Modules

<http://www.cde.ca.gov/re/cc/ccssplm.asp>

Professional Learning Modules (PLMs) developed by California teachers and other experts provide strategies and resources. The following module topics will be completed by September 2012:

- Overview of Professional Learning Modules CCSS for math and ELA
- Math: K-12 Standards for Mathematical Practice / Learning Progression
- ELA: Non-fiction Reading / Non-fiction Writing

California Common Core State Standards - Mathematics Resources

<http://caccssm.cmpso.org/>

Resources from the CaCCSS-M Task Force, composed of members of the California's math education community, that professional development providers can use to strengthen teachers' content knowledge to teach the newly adopted mathematics standards.

Brokers of Expertise

<http://www.myboe.org/>

Sponsored by the state of California, Brokers of Expertise (BoE) is an interactive online environment that offers both easily searchable teaching resources and an online community of teaching professionals -- a network for educators to share best practices, resources, and strategies. The site includes thousands of free lessons plans, Web activities, videos, and other educational resources for use in the classroom, with site users able to browse resources by topics of interest, including resources aligned to the Common Core math standards. Visitors can select lessons and resources by topic area.

UTAH

Utah Education Network (UEN)

<http://www.uen.org/commoncore>

UEN connects all Utah school districts, schools and higher education institutions. It provides many math-related resources, including Elementary Mathematics Curriculum Guides.

Aligned Assessments

Note that two federally funded state-led assessment consortia were formed to develop assessments aligned to the Common Core State Standards. States were able to join neither, one, or both consortia. California is a governing member of the Smarter Balanced Assessment Consortium.

Smarter Balanced Assessment Consortium

<http://www.smarterbalanced.org>

The Smarter Balanced Assessment Consortium (SBAC or Smarter Balanced) is a state-led consortium developing assessments aligned to the CCSS in English language arts/literacy and mathematics that are designed to help prepare all students to graduate high school college- and career-ready. Webinars, fact sheets, and other resources for teachers, administrators, families and business leaders on Smarter Balanced assessments are found on the site.

PARCC

<http://www.parconline.org/>

The Partnership for Assessment of Readiness for College and Career (PARCC) is a 23-state consortium working together to develop K-12 assessments aligned with the CCSS. The website provides information on the assessments, tools for implementation and planning for the CCSS at the district and site levels.

This memorandum is one in a series of quick-turnaround responses to specific questions posed by educators and policymakers in the Western region (Arizona, California, Nevada, Utah), which is served by the Regional Educational Laboratory West (REL West) at WestEd. This memorandum was prepared by REL West under a contract with the U.S. Department of Education’s Institute of Education Sciences (IES), Contract ED-IES-12-C-0002, administered by WestEd. Its content does not necessarily reflect the views or policies of IES or the U.S. Department of Education nor does mention of trade names, commercial products, or organizations imply endorsement by the U.S. Government.