



Grades 6- 12



Common Core Resources

To

Ignite & Inspire

ISBE

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Regional Common Core Conference

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Source:

Functions and Everyday Situations
<http://map.mathshell.org/materials/lessons.php?taskid=430&subpage=concept>
Interpreting Time and Distance Graphs
<http://map.mathshell.org/materials/lessons.php?taskid=208&subpage=concept>

Recommended Mathematics Resources for Common Core State Standards

Common Core Standards

<http://www.corestandards.org/the-standards/>

Common Core State Standards Initiative site has (1) K-12 Mathematics Standards, (2) Mathematics Appendix A: Designing High School Math Courses based on Common Core Standards, (3) Application of the Standards for English Language Learners, and (4) Application to Students with Disabilities.

Tools for Common Core Standards

<http://commoncoretools.wordpress.com/>

Dr. William McCallum, Chair of University of Arizona's Mathematics Department and a lead author for CCSSM, created this blog website to provide tools to support implementation of CCSS. Links include: Progression documents, Reflective Readings, and Teacher Task-Writing Contests.

Progressions Documents for the Common Core Math Standards

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

The Common Core State Standards in mathematics were built on progressions: narrative documents describing the progression of a topic across a number of grade levels, informed both by research on children's cognitive development and by the logical structure of mathematics. The progression documents are being updated and released as they become available.

Inside Mathematics

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

Inside Mathematics has assembled multiple ways for K-12 educators to transform their teaching practices. If you are looking for materials and tasks to use immediately with your students, you can search by grade and content area to find mathematical principles and materials developed by the Mathematics Assessment Resource Service (MARS). If you want to develop deeper understanding of the eight Standards for Mathematical Practice, you can view *connections between the standards and classroom videos*. If you want to observe exemplar lessons with different content and grade levels, visit the *public lessons* page. If you are working to enact change, visit the *tools for coaches* and *tools for administrators* sections.

National Council of Supervisors of Mathematics (NCSM)

www.mathedleadership.org/

NCSM is a mathematics leadership organization for aspiring, new and experienced educational leaders that provides professional learning necessary to support and sustain improved student achievement, through Networking, Communication, Support and Motivation opportunities. The site includes: *CCSS Curriculum Analysis Tools* and Professional Development Materials (including *CCSS Videos*), and a Report Summary Service.

National Council of Teachers of Mathematics (NCTM) Illuminations

<http://illuminations.nctm.org/activitysearch.aspx>

The site has lots of interactive activities and lesson plans by grade and content areas. Although it hasn't been aligned to CCSS yet, it is a good place to search for activities related to the Common Core concepts in each grade level.

Mathematics Assessment Project (MAP)

<http://map.mathshell.org.uk/materials/tasks.php>

This project has tools to help teachers guide students to improve and monitor progress. Tools include: (1) Lesson Units for Formative Assessment, 20 per grade for Grades 7-12, (2) Professional Development Modules pertaining to assessment pedagogy, (3) Summative Assessment Tasks, (4) Prototype Summative Tests to help teachers/students monitor progress.

The Teaching Channel

https://www.teachingchannel.org/videos?categories=topics_common-core

The Teaching Channel currently offers videos of K-12 mathematics teaching aligned with the Common Core State Standards, which would be perfect for professional development with teacher teams.

Sample Assessments from the Shell Center

<http://www.gatesfoundation.org/college-ready-education/Documents/supporting-instruction-cards-math.pdf>

Funded by the Gates Foundation, the Shell Center has developed a set of formative assessments linked to the Common Core Mathematics Standards. Click on the link to view sample assessments.

Parents' Guide to Student Success by Grade Level CCSS (K-12, Color & B/W, English & Spanish)

<http://www.pta.org/4446.htm>

Criteria for Resources Aligned to Mathematics Common Core State Standards

<http://usny.nysed.gov/rttt/docs/criteriaresources-math.pdf>

Dan Meyer: Why I Changed My Math Teaching (3:22)

<http://vimeo.com/1228744>

Phil Daro: Why Our Curriculum is a Mile Wide and an Inch Deep (5:13)

<http://www.youtube.com/watch?v=B6UQcwzyE1U>

Dan Meyer: HS Mathematics Curriculum Makeover (12:09)

<http://www.youtube.com/watch?v=BlvKWEvKSi8>

Phil Daro: How Do You Create Better Standards in Mathematics? (2:55)

<http://commoncore.pearsoned.com/index.cfm?locator=PS11Ye>

Hunt Institute: CCSS Implementation

http://www.ccsso.org/Resources/Digital_Resources/Common_Core_Implementation_Video_Series.html

Math Reasoning Strategies and Reasoning Inventory, Grades 5-6

<https://mathreasoninginventory.com/>

Math Reasoning Inventory is an online formative assessment tool designed to make classroom instruction more effective. The "About the Assessment" tab includes 80+ video clips of student interviews, tips about how to use the tool, information about reasoning strategies, help with reports, and more.

Achieve

<http://www.achieve.org/achievingcommoncore>

Achieve develops materials to focus on organization, content and evidence base used to support the CCSS, including fact sheets and frequently asked questions about CCSS. Achieve will help states implement the standards in four main categories: (1) Advocacy (CCSS Fact Sheets), (2) Tools (Grad Requirements, Assessment, Communication w/ Stakeholders), (3) Resources (Comparison w/Other Countries, American Diploma Project, NAEP, Exemplars), and (4) Videos (Transition and Implementation).

Achieve the Core

<http://achievethecore.org/>

Achieve the Core will focus on helping teachers understand shifts in instruction necessary for the CCSS and will build a storehouse of free resources to use.

Math Common Core Coalition

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

Mathematics Common Core Coalition provides advice and expertise on issues related to the implementation of CCSS. Members: National Council of Teachers of Mathematics (NCTM), National Council of Supervisors of Mathematics (NCSM), Association of Mathematics Teacher Educators (AMTE), Association of State Supervisors of Mathematics (ASSM), Council of Chief State School Officers (CCSSO), National Governors Association (NGA), SMARTER Balanced Assessment Consortium (SBAC), and Partnership for Assessment of Readiness for College and Careers (PARCC).

Illustrative Mathematics

<http://illustrativemathematics.org/>

Illustrative Mathematics Project (in development) will provide guidance to states, assessment consortia, testing companies, and curriculum developers by illustrating the range and types of mathematical work that students will experience with implementation of K-12 Common Core State Standards, and by publishing tools to support CCSS.

Common Core Standards App

<http://itunes.apple.com/us/app/common-corestandards/id439424555?mt=8>

Download the Mathematics and ELA Common Core State Standards to your smart phone with this free app.

National Science Digital Library (NDSL)

<http://nsdl.org/commcore/math>

This site features digital learning resources for concepts and skills aligned to Math Common Core State Standards. It is for grades K-12, organized by grade level and domain. Resources include lesson plans, simulations; problem sets w/explanations, and student activities.

Partnership for the Assessment of Readiness for College and Careers (PARCC)

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

PARCC is a consortium of 24 states is working together to develop a common set of K-12 assessments in Mathematics and English Language Arts, anchored in what it takes to be ready for college and careers. The assessments will build a pathway to college and career readiness by the end of high school, mark student progress toward this goal from 3rd grade up, and provide timely information to teachers to inform instruction and provide student support. PARCC will encourage and solicit feedback from a broad group of educators across PARCC states to provide feedback on resources, such as (1) *model content frameworks*, (2) *sample instructional units*, and (3) *sample assessment tasks*, to ensure they reflect educator needs and to give educators the opportunity to see and provide input into the PARCC design and development process

Recommended CCSS Mathematics Resources from Other States

Resources in Common Core Library (New York)

<http://schools.nyc.gov/Academics/CommonCoreLibrary/SeeStudentWork/default.htm>

CCSS aligned math curriculum modules for ELL/ESL Students and Students w/ Disabilities

Common Core Resources and Exemplars from EngageNY (New York)

<http://engageny.org/teachers/>

Common Core Mathematics (Ohio)

<http://www.ode.state.oh.us/GD/Templates/Pages/ODE/ODEDetail.aspx?page=3&TopicRelationID=1704&ContentID=83475>

CCSS Professional Development Mathematics & ELA Needs Assessment (Oregon)

<http://www.ode.state.or.us/search/page/?id=3513>

Unpacked CCSS: Mathematics K-12 (North Carolina)

<http://www.dpi.state.nc.us/acre/standards/common-core-tools/#unmath>

Math Resources for the Common Core Standards (Kansas)

<http://www.ksde.org/Default.aspx?tabid=4792>