

CCSS Mathematics Resources

These are some resources that can get you started in reviewing the Common Core Standards for Mathematics and how to implement them in the classroom. The websites that are starred (*) are for the documents that were distributed at the math meetings held in May – the Learning Progressions, the PARCC Model Content Frameworks, and the Ohio Model Units. I hope this is of help to you.

www.skillstutor.com/hmh/Home/registration : Check out this site to request more information about a fee-based mobile device app for students on Math Fact Fluency.

www.achievethecore.org : David Coleman has resources here on understanding and implementing the Common Core Standards for both ELA and math. Check out the “Steal These Tools” section and the “You’ve Got to Read This” section for more insights.

www.ccsstoolbox.com : This site is a resource designed to support districts working to meet the challenge and the opportunity of the new standards. Here you will find tools and instructional materials that help you to better understand and to implement the CCSSM. This site has been created through a collaboration of the Charles A. Dana Center at the University of Texas at Austin and Agile Mind with partial funding from the Bill & Melinda Gates Foundation. The site includes key visualizations of concepts and also formative assessment tools and tasks.

<http://nsdl.org/comcore/math> : This site (the National Science Digital Library) has lesson plans that have links to the CCSS Mathematics standards. It appears that the lessons were originally designed to meet the NCTM principles and processes, but now have been aligned to CCSS as well.

www.ride.ri.gov/Division-EEIE/transition.aspx : The RIDE website has many materials to reference, including Power Points on the standards (if you need a review) and information on the new assessments from PARCC (including timelines, interim changes, etc.). Also check out www.ride.ri.gov/Instruction/CommonCoreMaterials.aspx for more resources, broken down by math and ELA. Examples of sections at this portal are “Critical Areas”, “Where to Focus”, “Deeper Insight”, “Distribution of Domains”, and “the PARCC Model”.

*<http://commoncoretools.wordpress.com> : This site has the learning progressions for mathematics, developed by William McCallum at the University of Arizona. He is one of the writers of the CCSS for Mathematics. The learning progressions give insight into developmentally-appropriate scaffolding of the math concepts. The progressions are based on research about children’s cognitive development and on the logical structure of mathematics. Listed by grade, K-8 or high school and content domain, these are useful for teacher preparation and organizing curriculum.

* http://www.parcconline.org/sites/parcc/files/PARCCMCFforMathematics_Fall_2011_Release.pdf : This site has frameworks for mathematics by content and grade level, K-8, with a separate analysis section for the high school standards. It includes examples of opportunities to connect the content and practice standards, examples of key advances from the previous grade(s), fluency recommendations, all with the intent of giving more direction on the emphases in the PARCC assessment. The site can be useful in helping educators think more deeply about the standards, especially foundational structures.

* <http://www.parcconline.org/parcc-content-frameworks> : Try this link if the previous one fails.

<http://media.doe.in.gov/commoncore/2011-05-10-StandforMath.html> : Short video and resources on the Standards for Mathematical Practice.

<http://media.doe.in.gov/WebEx/assessment/2012-01-26-TheStandardsforMathPractice/index.html> : A webinar produced by the Indiana Dept. of Education on implementing the standards for mathematical practice.

<http://www.doe.in.gov/achievement/curriculum/high-quality-tasks-improving-instruction> : Open-ended assessment items (tasks) to understand student proficiency on mathematical practices, used for analysis of student work.

<http://www.Youtube.com/user/TheHuntInstitute#P/a> : You Tube video vignettes explaining the CCSS.

www.nctm.org : See the high school report titled “Focus on Reasoning and Sense Making”. Also search www.nctm.org/standards/content.aspx for lessons with alignments to the CCSS.

*<http://www.ode.state.oh.us/GD/Templates/Pages/ODE/ODEDetail.aspx?Page=3&TopicRelationID=1704&ContentID=83475&Content=126591> : This site is the home of the Ohio model mathematics curriculum units. These are excellent units that are being added to continually; they are great resources as you get down to the instructional implementation phase of the CCSS.

http://www.ccsso.org/Resources/Digital_Resources/Common_Core_Implementation_Video_Series.html : Video vignettes that explain the standards in far greater depth. These videos can assist in creating local curriculum and instruction materials, can help understand the major changes and the impact on the classroom, etc.