

Resources for Implementing the California Common Core State Standards for Mathematics

of the

Mathematics Framework

*for California Public Schools:
Kindergarten Through Grade Twelve*

Adopted by the California State Board of Education, November 2013

Published by the California Department of Education
Sacramento, 2015

Resources for Implementing the California Common Core State Standards for Mathematics

California Department of Education Resources

Common Core State Standards Web Page

The California Department of Education (CDE) Common Core State Standards Web page (<http://www.cde.ca.gov/re/cc/>) provides a portal to hundreds of resources for teachers, administrators, parents, and families, allowing users to get started and keep current with the California Common Core State Standards. This site is updated frequently and offers a searchable database.

California Standards Documents

California Common Core State Standards: English Language Arts and Literacy in History/Social Studies, Science, and Technical Subjects

<http://www.cde.ca.gov/be/st/ss/documents/finalelaccsstandards.pdf>

California Common Core State Standards: Mathematics

<http://www.cde.ca.gov/be/st/ss/documents/ccsmathstandardaug2013.pdf>

California English Language Development Standards: Kindergarten Through Grade 12

<http://www.cde.ca.gov/sp/el/er/eldstandards.asp>

All other state-adopted content standards are available online at the CDE Content Standards Web page (<http://www.cde.ca.gov/be/st/ss/>).

Other CDE Publications

The Alignment of the California Preschool Learning Foundations with Key Early Education Resources is an electronic publication (not available in print form) that displays the alignment of the four domains of infant/toddler learning and development foundations with the nine domains of preschool foundations. The publication clearly defines a full continuum of learning that begins at birth, highlighting the path of school readiness, long-term school success, and child wellness.

<http://www.cde.ca.gov/sp/cd/re/documents/psalignment.pdf>

A Look at Kindergarten Through Grade Six in California Public Schools: Transitioning to the Common Core State Standards in English Language Arts and Mathematics is an electronic publication (not available in print form) that contains grade-level chapters with short, descriptive narratives and California's K–6 Common Core standards for English language arts and mathematics.

<http://www.cde.ca.gov/re/cc/documents/lookatthrugrade6.pdf> [Link no longer valid]

A Look at Grades Seven and Eight in California Public Schools: Transitioning to the California Common Core State Standards in English Language Arts and Mathematics is an electronic publication (not available in print form) that contains grade-level chapters with short, descriptive narratives and California's grade-seven and grade-eight Common Core standards for English language arts and mathematics. <http://www.cde.ca.gov/ci/cr/cf/documents/glcgr78revisedjuly2014.pdf> [Link no longer valid].

Improving Education for English Learners: Research-Based Approaches is a CDE publication that offers a comprehensive, user-friendly review and analysis of recent research to inform and improve instructional practices. Ordering information is available from CDE Press at <http://www.cde.ca.gov/re/pn/rc/>.

The Superintendent's Quality Professional Learning Standards (QPLS) identify essential elements of quality professional learning that cut across specific content knowledge, pedagogical skills, and dispositions. The QPLS serve as a foundation for the content, processes, and conditions essential to all educator professional learning. The document is posted on the CDE Web site at <http://www.cde.ca.gov/pd/ps/documents/caqpls.pdf>.

CDE Web Pages

The CDE Assistive Technology Checklist Web Page provides a list of examples of assistive technology. <http://www.cde.ca.gov/sp/se/sr/atexmpl.asp>

The CDE Common Core Resources for Special Education Web Page offers resources and guidelines on how the California Common Core State Standards and the state's new student assessments will impact students in California's special education community. <http://www.cde.ca.gov/sp/se/cc/>

The CDE English Learners Resources Web page includes answers to frequently asked questions and links to Web sites with information about developing programs for linguistically and culturally diverse students. <http://www.cde.ca.gov/sp/el/er/>

The CDE Special Education Web Page features information and resources to serve the unique needs of persons with disabilities so that each person will meet or exceed high standards of achievement in academic and nonacademic skills. <http://www.cde.ca.gov/sp/se/>

The CDE Special Education Services and Resources Web Page provides a list of programs and services available to students with disabilities, publications, training and technical assistance opportunities, and recruitment resources and materials. <http://www.cde.ca.gov/sp/se/sr/>

Additional Mathematics Resources*

The **Achieve the Core** Web site provides free content created by the nonprofit Student Achievement Partners to help educators understand and implement the Common Core State Standards. The site includes practical tools designed to help students and teachers, including annotated lesson plans, videos, and hands-on activities.

<http://achievethecore.org/>

Appendix A of the Common Core State Standards for Mathematics, from the Council of Chief State School Officers (CCSSO) and the National Governors Association Center for Best Practices (NGA Center), provides guidance on higher mathematics (high school) courses, including compacted courses for acceleration.

http://www.corestandards.org/assets/CCSSI_Mathematics_Appendix_A.pdf

The **California Mathematics Project (CMP)**, in collaboration with the CDE, the California Mathematics Council (CMC), CCSESA's Mathematics Subcommittee of the Curriculum and Instruction Steering Committee (CISC), and the California Association of Mathematics Teacher Educators (CAMTE), established the CaCCSS-M Task Forces to collect, design, and organize resources that could be used in professional development to strengthen teachers' content knowledge in the California Common Core State Standards for Mathematics: K–2 Number Sense and Place Value, Fractions from a Number Line Approach, Model with Mathematics, Transformational Geometry, and High School Mathematical Modeling. These resources are updated on a regular basis.

<http://caccsm.cmpso.org/home>

GeoGebra is an online software suite that features interactive geometry, algebra, and calculus applications. It is intended for both teachers and students.

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

Illustrative Mathematics is a community of educators dedicated to coherent mathematics instruction. The community shares vetted resources for teachers and teacher leaders to give students an understanding of mathematics and skills to use mathematics. The Web site features many sample tasks for use in the classroom.

<https://www.illustrativemathematics.org/>

Inside Mathematics is a professional learning community focused on improving students' mathematics learning. The Inside Mathematics Web site features examples of innovative teaching methods and insights into student learning, as well as tools for mathematics instruction.

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

Math by Design was produced as part of a national public television collaborative aimed at creating online resources focused on STEM subjects (science, technology, engineering, and mathematics) for middle school students and teachers.

<http://mathbydesign.thinkport.org/>

*Inclusion on this list of additional mathematics resources does not imply that the California Department of Education (CDE) endorses the Web sites, the organizations that manage the Web sites, or materials found on the Web sites. The CDE does not monitor or control the Web sites or their content.

The University of Arizona's **Progressions Documents for the Common Core Math Standards** describe the progression of specific mathematics topics across a number of grade levels, informed both by research on children's cognitive development and by the logical structure of mathematics. The documents draw attention to cognitive difficulties and pedagogical solutions and give more detail on particularly complicated areas of mathematics.

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

Supporting ELLs in Mathematics is a collection of open-source materials produced by Understanding Language, an initiative of Stanford University. The materials were designed for teachers to support mathematics instruction and language development for English learners. Annotated lessons for classroom use are available through the Web site.

<http://ell.stanford.edu/content/supporting-ells-mathematics>

TKCalifornia Mathematics Teaching Tools provide examples of teaching strategies with concrete approaches for mathematics instruction in Transitional Kindergarten classrooms. The tools were designed to guide developmentally appropriate instruction.

<http://www.tkcalifornia.org/teaching-tools/mathematics/>

Note: All URLs referenced in the Resources for Implementing the California Common Core State Standards for Mathematics were accessed on June 19, 2015, and were valid as of that date.