

Collection Development Policy for the [NSDL Math Common Core Collection](#)
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Version 1.0

This collection contains digital learning objects identified as appropriate for teaching the grade-level specific mathematics concepts and skills found in the Common Core State Standards for Mathematics (CCSSM). Also, each digital learning object in the collection will support, at a minimum, the spirit of the Standards for Mathematical Practice, a key component of the CCSSM.

Resources in this growing collection include lesson plans, student activities, problem sets containing mathematical content, assessments, and other interactive digital resources such as games and simulations. Also found are materials supporting the pedagogical and mathematical content understanding needed by teachers to implement the CCSSM. The collection contains learning objects at the granularity level of a single lesson, student activity, or assessment.

The CCSSM grade-level specific standards describe what students should understand and be able to do during their study of mathematics. The standards for mathematical practice describe eight ways K-12 students should engage with the subject matter as they grow in mathematical maturity and expertise. The learning object metadata for a resource that directly supports one or more of the eight mathematical practices will list the relevant mathematical practice(s).

The standards for mathematical practice describe what mathematically proficient students should be able to do. The practices highlight the need to make sense of mathematics when problem solving. Individual practices identify the importance of developing student abilities to persevere; reason abstractly and quantitatively; construct arguments and critique the reasoning of others; model with mathematics; communicate precisely with mathematical language and symbols; use tools appropriately; look for and make use of mathematical structure; and observe and express regularity in repeated reasoning.

Mathematics education resource specialists form this valuable collection of learning objects for the K-12 classroom by evaluating digital resources based on the following criteria.

At the time of selection, a potential resource must meet the following criteria:

1. Contains accurate mathematics content based on K-8 grade-level and 9-12 course descriptions found in the Common Core State Standards for Mathematics.
2. Reflects one or more practices, or the spirit of the practices, described in the Standards for Mathematical Practice.
3. Offers content that is either developmentally appropriate for student learning or is supportive of the teacher's pedagogical or content knowledge development.
4. Is available digitally.

Mathematics education resource specialists are also guided by the following documents:

Common Core State Standards for Mathematics (CCSSM), Common Core State Standards Initiative, 2011

http://www.corestandards.org/assets/CCSSI_Math%20Standards.pdf

Mathematics: Principles and Standards for School Mathematics, National Council of Teachers of Mathematics (NCTM), 2000

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

ISTE NETS for Student Learning, International Society for Technology in Education (ISTE), 2011

<http://www.iste.org/standards/nets-for-students.aspx>,

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