



eMailNews

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- TUESDAY TELEGRAPH -

News from the Office of Early Childhood Education at the DOE

Dedicated Issue:

**Mathematics - Illustrative Mathematics Project K-12
Common Core State Standards (CCSS)**

From the website of Illustrative Mathematics:

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

Illustrative Mathematics 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.

The site organizes identical information in multiple ways to accommodate use by a vast audience. On the home page, the menu list on the left (*starting with Home and ending with Terms of Use*) allows the visitor to access filing cabinets by topic. The boxes to the left of the photo link to the same filing cabinets as the menu list.

In K-8 Standards, the organization of Common Core Standards is constructed by grade level. Click a grade level (*in bright colors at the top*) to reveal each of the strands, its standards and an explanation. Mathematics Illustrations can be clicked, and that will provide specific problems. These are the same illustrations from the Item Menu on the left. The pages provide you a few choices for customization.

The Common Core Standards have eight (8) standards for Mathematical Practice. These can be accessed via the menu list or through the box to the left of the picture. The website provides videos by multiple grades on what these practices might look and sound like in classrooms. These practices apply at all levels, K-12, and originate from the National Council of Teachers of Mathematics (NCTM) as well as from the

National Research Council's report: Adding It Up. These eight practices place emphasis on the "process and proficiencies" in mathematics education. They are:

- Makes Sense of Problems and Persevere in Solving Them
- Reason Abstractly and Quantitatively
- Construct Viable Arguments and Critique the Reasoning of Others
- Model with Mathematics
- Use Appropriate Tools Strategically
- Attend to Precision
- Look For and Make Use of Structure
- Look For and Express Regularity in Repeated Reasoning

Professional Educators and classroom teachers who are interested in contributing to Illustrative Mathematics can learn more in Frequently Asked Questions or by becoming a registered user of the Illustrative Mathematics Community. To submit a task to Illustrative Mathematics, check Frequently Asked Questions for the required format.

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