

## **Eight Standards for Mathematical Practices**

The Standards for Mathematical Practice describe varieties of expertise that math teachers at all levels should seek to develop in their students.

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express

## **Overview Standards for 3<sup>rd</sup> Grade**

### **Mathematics**

#### **Operations and Algebraic Thinking**

- \* Represent and solve problems involving multiplication and division.
- \* Understand properties of multiplication and the relationship between multiplication and division.
- \* Multiply and divide within 100.
- \* Solve problems involving the four operations, and identify and explain patterns in arithmetic.

#### **Number and Operations in Base Ten**

- \* Use place value understanding and properties of operations to perform multi-digit arithmetic.

#### **Number and Operations—Fractions**

- \* Develop understanding of fractions as numbers.

#### **Measurement and Data**

- \* Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- \* Represent and interpret data.
- \* Geometric measurement:- understand concepts of area and relate area to multiplication and to addition.
- \* Geometric measurement:- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

#### **Geometry**

- \* Reason with shapes and their attributes.

### **Reading Standards for Literature**

- \* Ask and answer questions about text to demonstrate understanding
- \* Compare and contrast themes, setting, and plots

### **Reading Standards for Informational Text**

- \* Determine main idea and key details
- \* Use text features and search tools to locate information

### **Reading Standards: Foundational Skills**

- \* Decode words with Latin suffixes and multisyllabic words
- \* Read 3<sup>rd</sup> Grade material fluently

### **Writing Standards**

- \* Write Narrative, Opinion, and Informational Pieces

### **Listening and Speaking Standards**

- \* Collaborative conversations
- \* Plan and deliver and informative presentations with organization

## What are some changes in instruction?

The common core standards require teachers to make 12 changes in their instruction- 6 shifts in English Language Arts (ELA) and 6 shifts in Mathematics.

### ELA

- Read more non-fiction
- Learn about the world through reading
- Read more challenging material
- Talk about reading using "evidence"
- Know more vocabulary words
- Learn how to write from what is read

### Mathematics

- Build on learning year after year
- Spend more time on fewer concepts
- Use math facts easily
- Develop speed and accuracy in solving problems
- Really know it, really do it
- Use math in real-world situations

## What are Common Core State Standards?

The Common Core State Standards create clear expectations for what students in Pre-K through 12th grade should be able to do in reading, writing, speaking and listening, language and mathematics. The standards will help all students across the State learn the same skills to ensure they are prepared for college and careers following graduation. The standards include changes, or "shifts," in how teachers teach to help children succeed in the topics and skills that matter most.

## What are some of the changes in assessment?

### Increases in Rigor

Questions will be more advanced and complex

### Focus on Text

Students will be required to read, analyze passages, and answer questions with evidence gathered from the text

### Depth of Math

Students will demonstrate a conceptual understanding of real-world math

## Understanding California Common Core State Standards

*Increasing the rigor and relevance of today's curriculum to prepare students for their future in college and careers*



Common Core State Standards (CCSS) is a nationwide initiative that allows states to share a common definition of readiness at each grade level. If students are to graduate high school fully prepared, they must meet the benchmarks set by the Common Core - at every grade and in every classroom. Here, you will find some information and ways that your child's classroom is changing.