

# Third Grade Curriculum Summary

## **MATHEMATICS**

Adopted Programs: McGraw-Hill Everyday Mathematics

**Mathematical Practices from the California Standards** (Consistent at each grade level for developing mathematical “habits of mind”)

- *Make 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*

### **Operations and Algebraic Thinking**

- Model and solve multiplication and division word problems within 100
- Determine the unknown whole number in a multiplication or division equation
- Understand and applies properties of multiplication and the relationship between multiplication and division
- Multiply and divide within 100 fluently
- Solve two-step word problems involving addition, subtraction, multiplication, and division
- Identify and explain patterns in arithmetic

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

- Use place value understanding to round whole numbers to the nearest 10 or 100
- Use place value understanding and a variety of strategies to add and subtract within 1000
- Multiply one-digit numbers by multiples of 10 (e.g.  $9 \times 80$ )

### **Number and Operations - Fractions**

- Understand the meaning and quantity of fractions
- Develop understanding of fractions as numbers on a number line
- Explain equivalence of simple fractions
- Compare fractions by reasoning about their size using the symbols  $>$ ,  $=$ , and  $<$

### **Measurement and Data**

- Tell time to the nearest minute and solve word problems involving time intervals
- Solve problems involving measurement and estimation of liquid volumes and masses of objects using standard units
- Measure length to halves and fourths of a unit
- Draw scaled picture and bar graphs and solve problems using data on graphs
- Understand concepts of area measurement and relate area to multiplication and addition
- Solve problems involving perimeters of polygons and distinguish between linear and area measurements

### **Geometry**

- Categorize and subcategorize 2-D shapes by shared attributes (e.g. quadrilaterals include rhombuses, rectangles, etc.)
- Partition shapes into parts with equal areas and express each part as a unit fraction

## **READING-LANGUAGE ARTS**

Adopted Programs: Houghton Mifflin (2001)

### **Reading**

Students must read widely and deeply from among a broad range of high-quality, increasingly challenging literary and informational texts\*

- Read with sufficient accuracy and fluency to support comprehension
- Ask and answer questions to demonstrate understanding of key details in a text- referring to text as the basis for the answers
- Determine the main idea, recount the key details
- Distinguish their own point of view from that of the author
- By the end of the year read and comprehend literature and informational text in grades 3-4 complexity band proficiently

### **Writing**

Students need to learn to use writing as a way of offering and supporting opinions, demonstrating understanding of the subjects they are studying and conveying real and imagined experiences and events\*

- Write opinion pieces, supporting a point of view with reasons
- Write informative texts to examine a topic and convey ideas and information clearly
- Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences
- Revise and edit writing
- Use technology to produce and publish writing

### **Listening and Speaking**

Students will participate in discussions on topics and texts appropriate for 3rd graders, link their comments to the remarks of others, and plan and deliver an informative presentation

## **SCIENCE**

Adopted Programs: FOSS

The San Mateo-Foster City School District will be implementing the Next Generation Science Standards (NGSS) in school year 2016-2017. In NGSS, each grade level has specific topics of study in Physical Science, Life Science and Earth Science which build on the concepts that were learned in previous years. Elementary schools use the Full Option Science System (FOSS) which is a hands-on, brain-development based curriculum.

### **Scientific Process Skills**

Predict the outcome(s) from simple investigations

### **Life, Physical or Earth Science Units**

Structures of Life, Matter & Energy, Sun, Moon & Stars

## **SOCIAL STUDIES**

Adopted Programs: Harcourt School Publishers, Reflections: California Series\*, 2007, Gr. K-5

### **Continuity and Change**

- Physical and cultural characteristics of California
- American Indian nations in the local region
- Local historical events
- Role of rules and laws
- Economy of the local region