

## Second 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 addition and subtraction word problems within 100
- Add and subtract within 20 mentally
- Determine whether a group of objects (up to 20) is odd or even
- Work with equal groups of objects to build foundation for multiplication

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

- Count, read, and write whole numbers to 1000; skip-count by 2s, 5s, 10s, and 100s
- Represent three-digit numbers by hundreds, tens and ones
- Compare three-digit numbers using the symbols  $>$ ,  $=$ , and  $<$
- Use place value understanding and a variety of strategies to add and subtract within 100
- Use concrete models or drawings to add and subtract within 100

#### **Measurement and Data**

- Measure and estimate lengths in standard units
- Solve addition and subtraction problems related to length
- Tell time to the nearest 5 minutes and know relationships of time (e.g. minutes in an hour)
- Solve problems involving combinations of dollar bills and coins
- Represent, interpret, and solve problems using data on graphs

#### **Geometry**

- Recognize and draw shapes having specified attributes (e.g. number of angles)
- Partition circles and rectangles into halves, thirds, and fourths
- Partition a rectangle into rows and columns of same-size squares

### **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 accuracy and fluency to support comprehension
- Ask and answer questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text
- Describe and know story structure and text features
- Compares and contrasts two texts on the same topic
- Read and comprehend literature and informational texts in the grade 2 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- introduce a topic, state an opinion, supply reasons, use linking words to connect, provide a concluding statement or section
- Write informative texts - introduce a topic, use facts to develop points, provide a concluding statement or section
- Write narratives - recount a well-elaborated event, include details to describe actions, use words to signal event order, provide a sense of closure
- With support from adults and peers, revise and edit writing
- Participate in research and writing projects

## Listening and Speaking

Students will participate in conversations about topics and texts appropriate for 2nd graders, give and follow three-four step oral directions, and plan and deliver a narrative presentation with speaking audibly in coherent sentences

## 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

Comparing and sorting, following verbal instructions, recording steps, events and observation

### Life, Physical or Earth Science Units

*Insects & Plants, Balance & Motion, Pebbles, Sand & Silt*

## SOCIAL STUDIES

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

### People Who Make a Difference

- People from students' everyday life
- People from history
- Contemporary people