

First 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 20
- Add and subtract within 10 mentally
- Understand the relationship between addition and subtraction
- Understand the meaning of the equal sign
- Determine the unknown whole number in an addition or subtraction equation

Number and Operations in Base Ten

- Count, read, and write whole numbers to 120 starting with any number less than 120
- Represent two-digit numbers by tens and ones
- Compare two-digit numbers using the symbols $>$, $=$, and $<$
- Use place value understanding and a variety of strategies to add within 100
- Identify 10 more than and 10 less than a given number

Measurement and Data

- Compare the length of two or more objects
- Tell time in hours and half-hours using analog and digital clocks
- Represent, compare, interpret data on graphs

Geometry

- Describe and analyze attributes (e.g.) number of sides of shapes
- Combine two-dimensional and three-dimensional shapes to create new shapes
- Partition circles and rectangles into halves, fourths, and quarters

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*

- Ask and answer questions about key details in a text

- Retell stories/ identify main topic
- Know the difference between literature and informational texts
- Use the illustrations to describe the story or the information
- Reading texts appropriately complex for grade 1

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 the topic, state an opinion, reason, and concluding statement
- Write informative texts- name a topic, supply some facts, and concluding sentence
- Write narratives- recount two or more events, include details, signal words for event order, provide closure
- With support from adults, use a variety of digital tools to produce and publish writing
- Participate in shared research and writing projects

Listening and Speaking

Students will participate in conversations about topics and texts appropriate for 1st graders, give, restate and follow two-step directions, memorize and recite poems, and speak in complete 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

Participates in following the Scientific Process, Records observations & data with numbers, drawings and/or words

Life, Physical or Earth Science Units

Plants and Animals, Air and Weather, Solids and Liquids

SOCIAL STUDIES

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

A Child's Place in Time and Space

- Rights and responsibilities in the contemporary world
- Respect for individual responsibility and other people
- Geographic and economic characteristics of their neighborhood and historic places
- Varied background of American citizens and symbols, icons, and songs from our country