

**MATHEMATICS  
CONTENT  
STANDARDS  
FOR CHRISTIAN  
UNIFIED SCHOOLS  
OF SAN DIEGO**

**Second Grade  
Parent Handbook**



# Standards for Mathematics

## Number Sense

### **1.0 Number Relationships**

By the end of second grade, your child will:

- 1.1 Count, read, and write whole numbers to 1,000 and identify the place value for each digit.
- 1.2 Use words, models, and expanded forms (e.g.,  $45 = 4 \text{ tens} + 5$ ) to represent numbers to 1,000.
- 1.3 Order and compare whole numbers to 1,000 by using the symbols  $<$ ,  $=$ ,  $>$ .

### **2.0 Addition and Subtraction**

By the end of second grade, your child will:

- 2.1 Understand and use the inverse relationship between addition and subtraction to solve problems and check solutions (e.g., an opposite number sentence for  $8 + 6 = 14$  is  $14 - 6 = 8$ ).
- 2.2 Find the sum or difference for two whole numbers up to three digits.
- 2.3 Use mental math to find the sum or difference to two-digit numbers.
- 2.4 Know addition facts to 18.
- 2.5 Know subtraction facts from 18.

### **3.0 Multiplication and Division**

By the end of second grade, your child will:

- 3.1 Use repeated addition, arrays, and count by multiples to do multiplication.
- 3.2 Solve problems involving multiplication and division.
- 3.3 Begin to memorize multiplication tables of 0's, 1's, 2's, 3's, 4's, 5's, and 10's.

### **4.0 Fractions and Decimals**

By the end of second grade, your child will:

- 4.1 Recognize, name, and compare unit fractions for  $1/12$  to  $1/2$ .
- 4.2 Recognize fractions of a whole and parts of a group.
- 4.3 Know that all fractional parts together equal one whole.

## **5.0 Computation with Money**

By the end of second grade, your child will:

- 5.1 Solve problems using combinations of coins and bills.
- 5.2 Know and use decimal notation and the dollar and cent symbols for money.
- 5.3 Add and make change from one dollar.

## **6.0 Estimation**

By the end of second grade, your child will:

- 6.1 Recognize when an estimate is reasonable in measurements,

## **Algebra and Functions**

### **1.0 Number Relationships**

By the end of second grade, your child will:

- 1.1 Use commutative property to simplify mental calculations and check results.
- 1.2 Relate problem situations to number sentences involving addition and subtraction.
- 1.3 Solve addition and subtraction problems using data from simple charts, picture graphs, and number sentences.
- 1.4 Locate points on a number line.
- 1.5 Identify a missing number in a sequence.
- 1.6 Identify a missing shape or design in a repeating pattern.
- 1.7 Locate and graph points on a coordinate graph.

## **Measurement and Geometry**

### **1.0 Measurement**

By the end of second grade, your child will:

- 1.1 Measure the lengths of objects by repeating a nonstandard or standard unit.
- 1.2 Use different units to measure the same object and predict whether the measure will be greater or smaller when a different unit is used.
- 1.3 Measure the length of an object to the nearest inch and/or centimeter.
- 1.4 Tell time to the nearest quarter hour and know relationships of time (e.g., minutes in an hour, days in a month).
- 1.5 Determine the duration of intervals of time in hours (e.g., 11:00 a.m.-4:00 p.m.).
- 1.6 Find the perimeter, area, and volume of simple shapes.
- 1.7 Solve problems using a calendar.

## **2.0 Geometry**

By the end of second grade, your child will:

- 2.1 Describe and classify plane and solid geometric shapes (e.g., circle, triangle).
- 2.2 Put shapes together and take them apart to form other shapes.

## **Statistics, Data Analysis, and Probability**

### **1.0 Data**

By the end of second grade, your child will:

- 1.1 Record numerical data in systematic ways, keeping track of what has been counted (e.g., pictographs, bar graphs, and Venn diagrams).
- 1.2 Represent the same data in more than one way.
- 1.3 Conduct a probability experiment and analyze results.
- 1.4 Ask and answer simple questions related to data representations.

### **2.0 Patterning**

By the end of second grade, your child will:

- 2.1 Recognize, describe, and extend patterns and determine the rule for linear patterns.
- 2.2 Solve problems in simple number patterns.

## **Mathematical Reasoning**

### **4.0 Making Decisions about a Problem**

By the end of second grade, your child will:

- 4.1 Determine the approach, materials, and strategies to be used.
- 4.2 Use tools, such as manipulatives or sketches, to model problems.

### **5.0 Solving Problems and Justify Reasoning**

By the end of second grade, your child will:

- 5.1 Defend the approach, materials, and strategies to be used.
- 5.2 Make precise calculations and check the validity of the results from the context of the problem.

### **6.0 Make Connections**

By the end of second grade, your child will:

- 6.1 Note connections between one problem and another.

- 6.2 Recognize God as the creator of Earth and founder of mathematic principles.
- 6.3 Recognize the attributes of God evident in mathematics (e.g., orderly, unchanging, absolute)