

## **GRADE 2 MATHEMATICS**

The Second Grade Mathematics Program enables all children to develop a solid foundation in the language and basic concepts of all areas of mathematics. This program incorporates hands-on activities, manipulatives, and mental math to build on the students' previous knowledge. They acquire a secure understanding of mathematics because of the multi-sensory approach of this program. The lessons are presented in increments and provide the students time and materials to continue practicing each concept.

### **Number sense:**

Students will:

- Recognize and write numbers to 100
- Understand ordinal numbers
- Write mixed numbers
- Learn to count by 2's, 5's, 10's
- Order of numbers
- Comparing numbers
- Estimating
- Place value
- Even and odd numbers

### **Addition:**

Students will:

- Learn double addition facts
- Be introduced to word problems
- Learn how to add facts plus 1
- Learn to add 0 to any number
- Learn their addition facts plus 2
- Learn their addition facts plus 9
- Adding two digit numbers
- Adding three or more single numbers
- Adding two and three digit numbers with sums less than and greater than 100
- Understand the addition algorithm rule
- Addition Properties - Algebra

### **Subtraction:**

Students will:

- Understand subtraction word problems
- Subtract 0, 1, and 10 from a number
- Subtract two digit numbers with and without regrouping
- Subtract three digit numbers with and without regrouping
- Subtract the number from itself
- Subtract 10 from a two digit number
- Use Addition to Subtract - Algebra

### **Multiplication:**

Students will:

- Learn the basic multiplication facts for multiplying by 1, 2, 5, and 10

**Division:**

Students will:

- See the difference between dividing equal and unequal numbers

**Money:**

Students will:

- Learn the value of a penny, nickel, dime, and quarter, half dollar
- Learn how to use the cent sign and the dollar sign

**Fractions:**

Students will:

- Recognize a  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$
- Learn how to write fractions

**Clock and Measurement:**

Students will:

- Learn to tell time to the hour and half-hour
- Learn the days of the week
- Using a calendar
- Use a ruler for measuring inches, feet, yard
- Using centimeters and meters
- Perimeter and area
- Use one-inch tiles for measurement of area
- Learn to read a thermometer
- Learn the liquid measurement of a cup, tablespoon, and teaspoon, pints, quarts, gallons
- Hands on activity using kilograms and grams, and liters
- Using Fahrenheit and celsius

**Geometry:**

Students will:

- Recognize the attributes of pattern blocks
- Recognize geometric figures
- Learn horizontal, vertical, and oblique lines
- Learn symmetry
- Compare congruent shapes
- The difference of geometric solids

**Graphing:**

Students will:

- Learn to read a bar graph, line graph
- Make and understand Venn Diagrams
- Predicting outcomes

**Materials:**

- Houghton Mifflin Math Teachers and Student
- Students' Practice book
- Big Books
- Student Resource book
- Unit Resources- Chapter tests, homework masters, Word problem masters,

- Chapter challenge masters
- Student Manipulative kits
- Overhead Manipulative kit
- Overhead
- coins
- Transparencies
- Dry erase workmats

**Instruction:**

The following are the components of the each math lesson: 1.Problem of the day 2.vocabulary words.  
3 Present lesson 4. Guided practice 5. Practice 6 Practice book -homework

Teachers will:

- Oversee Calendar each day
- Review facts by using daily math sheets
- Introduce the lesson
- Distribute manipulatives to reinforce the lesson
- Conference with each child about their worksheet
- Assign the homework which coincides with the day's lesson
- Chapter tests at the end of each section

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