

WELCOME TO SECOND GRADE MATH!

In second grade, your child will become a Base Ten expert. They will learn to navigate larger numbers with confidence and use math to solve more complex, real-world problems.

By the end of the year, here is what students should be able to do:



Addition, Subtraction, and Advanced Problem Solving

Students are no longer just solving simple one-step problems. They are learning to think through multiple parts of a story.

- ✓ **Word Problems:** Solve problems within 100 that require one and two steps (e.g., "Maria had 20 crayons, gave 5 to a friend, and then bought 10 more. How many does she have now?").
- ✓ **Fluency:** Addition and subtraction within 20.
- ✓ **Even and Odd:** Determine whether a group of objects (up to 20) has an odd or even number of members.
- ✓ **Intro to Arrays:** Use addition to find the total number of objects arranged in rectangular arrays (rows and columns) up to 5 by 5.



Geometry

- ✓ **Shape Attributes:** Recognize and draw shapes based on specific attributes, such as a given number of angles or a given number of equal faces (identifying triangles, quadrilaterals, pentagons, hexagons, and cubes).
- ✓ **Dividing Shapes:** Partition (split) circles and rectangles into two, three, or four equal shares. Describe these shares using the words halves, thirds, and fourths. They should recognize that a "whole" is made up of two halves, three thirds, or four fourths.

Place Value



- ✓ **Understanding 1,000:** Understand that the three digits of a 3-digit number represent amounts of hundreds, tens, and ones (e.g., 706 is 7 hundreds, 0 tens, and 6 ones).
- ✓ **Skip-Counting:** Count within 1,000 and skip-count by 2s, 5s, 10s, and 100s.
- ✓ **Reading and Writing Numbers:** Read and write numbers up to 1,000 using base-ten numerals, number names (e.g., "five hundred twelve"), and expanded form (e.g., $500 + 10 + 2$).
- ✓ **Adding/Subtracting:** Add and subtract 3-digit numbers. Add up to four 2-digit numbers. Explain why addition and subtraction strategies work.
- ✓ **Mental Math:** Mentally add or subtract 10 or 100 to/from a given number

Measurement and Data



- ✓ **Standard Units:** Measure the length of an object using rulers, yardsticks, meter sticks, and measuring tapes.
- ✓ **Estimating:** Estimate lengths using units like inches, feet, centimeters, and meters.
- ✓ **Telling Time:** Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.
- ✓ **Money:** Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols correctly.
- ✓ **Graphing:** Draw a picture graph and a bar graph to represent a data set with up to four categories.
- ✓ **Line Plots:** Measuring lengths of several objects and show the measurements in a line plot.

