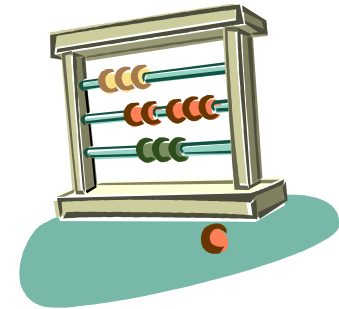


Work with Patterns and Relationships

- Identifies and uses a rule that generates the pattern.
- Finds the missing element in patterns and number sequences.
- Discover, invent, describe, generalize, extend and represent a variety of patterns.
- Identifies and uses the rule that generates the pattern.
- Understand that a number sentence is true when both sides are equal.

Work with Data

- Gather, organize, and display data using appropriate scales.
- Interpret, compare, and make predictions based on data from tables, pictographs, bar graphs, and line graphs.
- Solve problems by identifying and analyzing a variety of numeric patterns.
- Identify and describe a trend.



PARENT RESOURCE

Grade 3 Mathematics

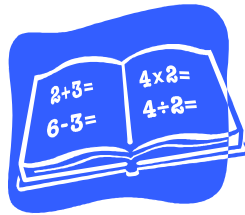
▶ Hartford School District

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▶ Grade 3 Mathematics

The goal of the third grade mathematics units is for all students to achieve mathematical proficiency through mastery of mathematical skills, concepts, and process. The end result is the ability to think and reason mathematically and use mathematics to solve problems in authentic context.



The following outline provides an overview of what students should know and be able to do by the end of each unit in Grade 3. Throughout all units, students will apply concepts and skills to solve problems, communicate and reason mathematically, and make mathematical connections.

Work with Numbers

- Represent three- and four-digit numbers in a variety of ways.
- Subtract and add two- and three-digit numbers with regrouping.
- Estimate sums and differences of numbers less than 1,000.
- Solve problems involving numeric equations or inequalities. Demonstrate mastery of multiplication and division facts for 0, 1, 2, 5, and 10.
- Solve multiplication and division problems using a variety of strategies.
- Solve problems using estimation techniques and number properties.
- Multiply and divide multi-digit numbers by one-digit numbers.
- Represent fractions with denominators of 2, 3, 4, and 8 using a set, linear, and area model.
- Locate whole numbers and fractions with denominators of 2, 3, 4, and 8 on a number line.
- Find equivalent fractions and solve problems involving fractions.

Work with Shapes and Measurement

- Estimate and/or measure length to solve problems.
- Estimate and count to find the area and perimeter of figures.
- Solve problems involving the area and perimeter of figures.
- Identify, describe, and classify two- and three-dimensional shapes.
- Identify angles and describe how they compare to right angles.
- Recognize three-dimensional objects from different perspectives.
- Identify and describe symmetry and congruence of geometric figures.
- Describe and represent slides, flips, and turns using pictures and objects.
- Estimate and determine elapsed time using clocks and calendars.
- Choose appropriate measurement units and tools.
- Solve problems involving weight, capacity, temperature, or time.
- Solve problems involving money through one hundred dollars.
- List possible outcomes for an event and describe the likelihood of an event.