

<b>Quarter 1</b>	<p style="text-align: center;"><b>Number Sense and Operations</b></p> <p><b>1: Understand the place value of four-digit numbers.</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>1.1:</b> Read and write numbers from 0 to 10,000 using standard form, expanded form and word form.</li><li><input type="checkbox"/> <b>1.2:</b> Compose and decompose four-digit numbers in multiple ways using thousands, hundreds, tens and ones. Demonstrate each composition or decomposition using objects, drawings and expressions or equations.</li><li><input type="checkbox"/> <b>1.3:</b> Plot, order and compare whole numbers up to 10,000.</li><li><input type="checkbox"/> <b>1.4:</b> Round whole numbers from 0 to 1,000 to the nearest 10 or 100.</li></ul> <p><b>2: Add and subtract multi-digit whole numbers. Build an understanding of multiplication and division operations.</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>2.1:</b> Add and subtract multi-digit whole numbers including using a standard algorithm with procedural fluency.</li><li><input type="checkbox"/> <b>2.2:</b> Explore multiplication of two whole numbers with products from 0 to 144, and related division facts.</li><li><input type="checkbox"/> <b>2.3:</b> Multiply a one-digit whole number by a multiple of 10, up to 90, or a multiple of 100, up to 900, with procedural reliability.</li><li><input type="checkbox"/> <b>2.4:</b> Multiply two whole numbers from 0 to 12 and divide using related facts with procedural reliability.</li></ul> <p style="text-align: center;"><b>Algebraic Reasoning</b></p> <p><b>1: Solve multiplication and division problems.</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>1.1:</b> Apply the distributive property to multiply a one-digit number and two-digit number. Apply properties of multiplication to find a product of one-digit whole numbers.</li><li><input type="checkbox"/> <b>1.2:</b> Solve one- and two-step real-world problems involving any of four operations with whole numbers.</li></ul>
	<p style="text-align: center;"><b>Algebraic Reasoning</b></p> <p><b>2: Develop an understanding of equality and multiplication and division.</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> <b>2.1:</b> Restate a division problem as a missing factor problem using the relationship between multiplication and division.</li><li><input type="checkbox"/> <b>2.2:</b> Determine and explain whether an equation involving multiplication or division is true or false.</li></ul>

## Quarter 2

- 2.3:** Determine the unknown whole number in a multiplication or division equation, relating three whole numbers, with the unknown in any position.

### 3: Identify numerical patterns, including multiplicative patterns.

- 3.1:** Determine and explain whether a whole number from 1 to 1,000 is even or odd.
- 3.2:** Determine whether a whole number from 1 to 144 is a multiple of a given one-digit number.
- 3.3:** Identify, create and extend numerical patterns.

#### Fractions

### 1: Understand fractions as numbers and represent fractions.

- 1.1:** Represent and interpret unit fractions in the form  $\frac{1}{n}$  as the quantity formed by one part when a whole is partitioned into  $n$  equal parts.
- 1.2:** Represent and interpret fractions, including fractions greater than one, in the form of  $\frac{m}{n}$  as the result of adding the unit fraction  $\frac{1}{n}$  to itself  $m$  times.
- 1.3:** Read and write fractions, including fractions greater than one, using standard form, numeral-word form and word form.

## Quarter 3

#### Fractions

### 2: Order and compare fractions and identify equivalent fractions.

- 2.1:** Plot, order and compare fractional numbers with the same numerator or the same denominator.
- 2.2:** Identify equivalent fractions and explain why they are equivalent

#### Measurement

### 1: Measure attributes of objects and solve problems involving measurement.

- 1.1:** Select and use appropriate tools to measure the length of an object, the volume of liquid within a beaker and temperature.
- 1.2:** Solve real-world problems involving any of the four operations with whole number lengths, masses, weights, temperatures or liquid volumes.

### 2: Tell and write time and solve problems involving time.

- 2.1:** Using analog and digital clocks tell and write time to the nearest minute using a.m. and p.m. appropriately.
- 2.2:** Solve one- and two-step real-world problems involving elapsed time.

## Quarter 4

### Geometric Reasoning

#### 1: Describe and identify relationships between lines and classify quadrilaterals.

- 1.1:** Describe and draw points, lines, line segments, rays, intersecting lines, perpendicular lines and parallel lines. Identify these in two-dimensional figures.
- 1.2:** Identify and draw quadrilaterals based on their defining attributes. Quadrilaterals include parallelograms, rhombi, rectangles, squares and trapezoids
- 1.3:** Draw line(s) of symmetry in a two-dimensional figure and identify line symmetric two-dimensional figures.

#### 2: Solve problems involving the perimeter and area of rectangles.

- 2.1:** Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares.
- 2.2:** Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula.
- 2.3:** Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula.
- 2.4:** Solve mathematical and real-world problems involving the perimeter and area of composite figures composed of non-overlapping rectangles with whole number side lengths.

### Data Analysis and Probability

#### 1: Collect, represent and interpret numerical and categorical data.

- 1.1:** Collect and represent numerical and categorical data with whole-number values using tables, scaled pictographs, scaled bar graphs or line plots. Use appropriate titles, labels and units.
- 1.2:** Interpret data with whole-number values represented with tables, scaled pictographs, circle graphs, scaled bar graphs or line plots by solving one- and two-step problems.