

# Number Sense

- I can read, write, identify, and compare numbers from billions to thousandths using number names, base ten numerals, expanded form, and symbols.
- I can understand that in a multi-digit number, a digit represents  $\frac{1}{10}$  times what it would represent to the place to its left and evaluate the value of powers of 10
- I can round numbers from billions to thousandths place
- I can add and subtract multi-digit whole numbers and decimals to the thousandths place, and justify the solution
- I can multiply multi-digit whole numbers and decimals to the hundredths place, and justify the solution
- I can divide multi-digit whole numbers and decimals to the hundredths place using up to two-digit divisors and four-digit dividends, and justify the solution

# Number Sense-Fractions

- I can understand that parts of a whole can be expressed as fractions and/or decimals and convert between the two
- I can compare and order fractions and/or decimals to the thousandths place using the symbols  $<$ ,  $>$ ,  $=$  and justify the solution
- I can estimate results of sums, differences, and products with fractions and decimals to the thousandths
- I can justify the reasonableness of a product when multiplying with fractions
- I can solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators, and justify the solution
- I can extend the concept of multiplication to multiply a fraction or whole number by a fraction
- I can extend the concept of division to divide unit fractions and whole numbers by using visual fraction models and equations

# Relationship & Algebraic Thinking

- I can investigate the relationship between two numeric patterns
  - ⇒ I can generate two numeric patterns given two rules
  - ⇒ I can translate two numeric patterns into two sets of ordered pairs
  - ⇒ I can graph numeric patterns on the coordinate plane
  - ⇒ I can identify the relationship between two numeric patterns
- I can write a rule to describe or explain a given numeric pattern
- I can write, evaluate, and interpret numeric expressions using the order of operations
- I can translate written expressions into algebraic expressions
- I can solve and justify multi-step problems involving variables, whole numbers, fractions, and decimals

# Geometry & Measurement

- I can understand that attributes belonging to a category of figures also belong to all subcategories and classify figures based on properties
- I can understand the concept of volume and recognize that volume is measured in cubic units
  - ⇒ I can describe a cube with edge length 1 unit as a "unit cube" and is said to have "one cubic unit" of volume and can be used to measure volume
  - ⇒ I can understand that the volume of a right rectangular prism can be found by stacking multiple layers of the base
- I can apply the formulas  $V = l \times w \times h$  and  $V = B \times h$  for volume of right rectangular prisms with whole number edge lengths