**Subunit Intended Learning Outcomes**

Parallel Unit: Basic Math Facts

(Continuing throughout the year)

Students will master basic math facts in the four operations.

Subunit: Operations with Decimals

(Number and Operations Base Ten)

Students will define vocabulary terms associated with the unit.

Students will understand the place value system.

* Students will recognize the place value of a given digit, understanding that each place is ten times more than the place to its right.
* Students will read and write numbers using standard form (digits), word form, and expanded form.
* Students will explain patterns when multiplying by powers of 10.
* Students will compare numbers using >, <, =.
* Students will round numbers to a given place value.

Students perform operations with multi-digit whole numbers and with decimals to the hundredths.

* Students will fluently add and subtract whole numbers using the standard algorithm.
* Students will fluently multiply multi-digit whole numbers using the standard algorithm.
* Students will divide 4-digit whole numbers by 2-digit divisors to find the quotient and remainders.
* Students will add, subtract, multiply and divide decimals to hundredths.

Subunit: Building a Basis for Algebra

(Operations and Algebraic Thinking)

Students will define vocabulary terms associated with the unit.

Students will write and interpret numerical expressions.

* Students will identify the sequence for the order of operations: PEMDAS
* Students will evaluate expressions with the following mathematical symbols: parentheses, brackets, or braces.
* Students will write simple expressions that record calculations with numbers without having to calculate them.

Students will analyze patterns and relationships.

* Students will generate two numerical patterns using two given rules.
* Students will indentify relationships between the terms.
* Students will form ordered pairs consisting of corresponding terms.
* Students will graph the ordered pairs on the coordinate plane.

Subunit: Fractions

(Number and Operations – Fractions)

Students will define vocabulary terms associated with the unit.

Students will use equivalent fractions as a strategy to add and subtract fractions.

* Students will add and subtract fractions with unlike denominators (including mixed numbers).
* Students will solve word problems involving addition and subtraction of fractions.

Students will apply and extend previous understanding of multiplication and division to multiply and divide fractions.

* Students will interpret a fraction as division of the numerator by the denominator.
* Students multiply a fraction or whole number by a fraction.
* Students will interpret multiplication as scaling or resizing.
* Students will solve real world problems.
* Students will divide fractions by whole numbers and whole numbers by fractions.

Subunit: Geometry

(Geometry)

Students will graph points on the coordinate plane to solve real-world and mathematical problems)

* Students will define vocabulary associated with the unit to define a coordinate system.
* Students will represent real world and mathematical problems by graphing point is the first quadrant of the coordinate plane and interpret coordinate values for the situations.

Students will classify two-dimensional figures into categories

* Students will understand attributes belonging to two-dimensional figures.
* Students will classify two-dimensional figures in a hierarchy based on properties.

Subunit: Measurement and Data

(Measurement and Data)

Students will define vocabulary terms associated with the unit.

Students will convert like measurement units within a given measurement system.

* Students will convert among different-sized standard measurement units within a given measurement system and use the conversions to complete multi-step, real world problems.

Students will represent and interpret data.

* Students will make a line plot to display a data set of measurement in fraction of a unit.
* Students will use operations to solve problem involving information on the line plots.

Students will understand the concept of volume.

* Students will recognize volume as and attribute of a solid figure.
* Students will measure volume by counting unit cubes.
* Students will find the volume of rectangular prisms by applying the formula length x width x height.
* Students will add the volume of non-overlapping parts to solve real world problems.

\*Intended learning outcomes based on the Model Curriculum Standards as drafted January 31, 2011. The material is still under review through the month of February.