Learning Task Map – Pre-Algebra

Identifying The Number System 1.0

- Define Rational Numbers 1.1
- Define Irrational Numbers 1.2
- Convert Irrational Numbers into Rational Approximations 1.3

Evaluating Expressions & Equations 2.0

- Define, evaluate, & compare Radicals & Integer Exponents 2.1
- Evaluate and identify Square & Cube Roots 2.2
- Using Powers of 10 when estimating 2.3
- Define and evaluate Scientific Notation 2.4
- Plot Linear Equations on Cartesian Coordinate 2.5
- Calculate Slope 2.6
- Analyze and solve pairs of linear equations 2.7

Defining, evaluating and comparing Functions 3.0

- Define, evaluate & compare functions 3.1
- Model relationships between two quantities 3.2
- Determine Rate of Change 3.3
- Analyze a Graph where the function is increasing or decreasing, linear or nonlinear 3.4
- Sketch a graph given a function that has been described verbally 3.5

Identify Foundations of Geometry 4.0

- Understand congruence and similarity using physical models, transparencies, or geometry software. **4.1**
- Understand and apply the Pythagorean Theoreom 4.2
- Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres. 4.3

Interpreting Statistics & Probability 5.0

- Construct and interpret scatter plots 5.1
- Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept 5.2
- Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. 5.3

0.1 Evaluate expressions using the order of operations

0.2 Add, subtract, multiply and divide whole numbers

0.3 Relate integers to points on a number line.