

Mary Queen of Peace Curriculum--Math Pre-Algebra

High Priority Standards: (State, National, CCSS)

The Number System

Learning Goal

Students will be able to:
compare, order, and represent rational numbers in
multiple ways.

Learning Targets

- Know that numbers that are not rational are irrational. Understand formally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.
- Understand ratio concepts and use ratio reasoning to solve problems.

High Priority Standards: (State, National, CCSS)

Expressions and Equations

Learning Goal

Students will be able to: simplify expressions and polynomials

Learning Targets

- Interpret expressions; identify parts such as terms, factors, and coefficients.
- Perform arithmetic operations on polynomials; be able to add, subtract, multiply and divide (monomials only) polynomials.

Learning Goal

Students will be able to: analyze and solve linear equations and inequalities

Learning Targets

- Solve and graph linear equations and inequalities with one variable.
- Analyze and solve systems of equations and inequalities.
- Understand that solving equations is a process of reasoning; be able to explain reasoning.

High Priority Standards: (State, National, CCSS)

Functions

Learning Goal

Students will be able to: use functions to model relationships between quantities.

Learning Targets

- Construct a function to model a linear relationship; be able to determine and interpret the rate of change and initial value of a function from a description, ordered pair, table, or graph.
- Describe quantitatively the functional relationship between quantities by analyzing a graph.

Learning Goal

Students will be able to: graph and analyze functions and represent data.

Learning Targets

- Create equations in one variable that describe relationships.
- Understand and use function notation.
 - For each domain there is exactly one range.
- Analyze functions in different representations.
 - Compare two functions represented in different ways-algebraically, graphically, or in tables.