**Algebra1**

**Semester 1 Final Exam**

Variables

Order of Operations

Exponents

Real Numbers: Adding, Subtracting, Multiplying and Dividing

Properties of Real Numbers

Functions

Distributive Property

Algebraic Properties

Solving One Step Equations

Solving Two Step Equations

Solving Multistep Equations

Solving Equations with variables on both sides of the equal sign

Solving equations for a specified variable

Solving Problems with fractions

Solving Inequalities

Graphing Inequalities

Compound Inequalities – Two inequalities joined by “and” or “or”

Absolute Values

Ratios and Proportions

Proportions and Similar Figures

Percent Change

Coordinate Plane

Relations

Equations as Relations

Function Rules

Direct Variation Problems

Slope and Rate of Change

Slope Intercept Form **y = *m*x + b**

Point Slope Form 

Perpendicular and Parallel Lines

X and Y intercepts

Horizontal and Vertical Lines

Solving systems using graphing