**Algebra I –review unit**

Lesson 1.1 & 1.2 Expressions and Formulas & Properties of Real Numbers

Student will be able to:

* Use the order of operations to evaluate expressions
* Use formulas
* Classify real numbers
* Use the properties of real numbers to evaluate expressions

Lesson 1.3 & 1.5 Solving Equations & Solving Inequalities

Student will be able to:

* Translate verbal expressions into algebraic expressions and equations, and vice versa
* Solve equations using the properties of equality
* Solve one step inequalities
* Solve mulit-step inequalities

Lesson 1.4 & 1.6 Solving Absolute Value Equations & Solving Absolute Inequalities

Student will be able to:

* Evaluate expressions involving absolute values
* Solve absolute value equations
* Solve compound inequalities
* Solve absolute value inequalities

**UNIT 1A TEST**

**Factoring – mini unit**

Lesson 0-2 & 0-3 Foil and Factoring

Student will be able to:

* Use FOIL method of distribution to multiply binomials
* Use various techniques to factor polynomials

Lesson 5.5 Solving Polynomial Equations –Difference of Squares & Sum/Difference of Cubes

Student will be able to:

* Factor polynomials

**UNIT 1B Test**

**Quadratics – 2A**

Lesson 4.1 Graphing Quadratic Functions

Student will be able to:

* Graph quadratic functions
* Find and interpret the maximum and minimum values of a quadratic function

Lesson 4.2 Solving Quadratic Equations by graphing

Student will be able to:

* Solve quadratic equations by graphing
* Estimate solutions of quadratic equations by graphing

Lesson 4.3 Solving Quadratic Equations by factoring

Student will be able to:

* Write quadratic equations in standard form
* Solve quadratic equations by factoring

Lesson 4.7 Transformations of Quadratic Graphs –vertex form

Student will be able to:

* Write quadratic equations in vertex form

**UNIT 2A TEST**

**Quadratics -- 2B**

Lesson 4.4 Complex Numbers

Student will be able to:

* perform operations with pure imaginary numbers
* perform operations with complex numbers
* perform operations with pure imaginary numbers
* perform operations with complex numbers

Lesson 4.5 Completing the Square

Student will be able to:

* solve quadratic equations using the square root property
* solve quadratic equations by completing the square

Lesson 4.6 The Quadratic Formula and the Discriminant

Student will be able to:

* solve quadratic equations using the quadratic formula
* use the discriminant to determine the number and types of roots of a quadratic equation

**SEMESTER 1 FINAL**