

Algebra 1

Instructor:

Mrs. Shephard
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Time and Location:

Semester Two (2010-2011): Seventh and Eighth Period
Room 26

Course Overview:

Algebra 1 is intended to build a foundation for all higher math classes. This course will review algebraic expressions, integers, and mathematical properties that will lead into working with variables and linear equations. There will be an in-depth study of graphing, polynomials, quadratic equations, data analysis and systems of equations.

Prerequisites:

Pre-Algebra

Enduring Understandings (Objectives):

The student will understand how to:

- Translate verbal phrases and sentences into algebraic expressions and equations
- Solve linear equations and inequalities for any given variable
- Graph linear equations and inequalities
- Solve quadratic equations
- Factor polynomials
- Simplify polynomial and rational expressions
- Solve a system of linear equations/inequalities
- Simplify radicals and solve radical equations

Areas of Study:

- Language of Algebra
- Real Numbers
- Solving Linear Equations
- Graphing Relations and Functions
- Analyzing Linear Equations
- Solving Linear Inequalities
- Solving systems of Linear Equations and Inequalities
- Polynomials
- Factoring
- Quadratic and Exponential Functions
- Radical Expressions and Triangles
- Rational Expressions and Equations

Assessments

Grade is determined by:

- Participation 10%
- Homework 20%
- Quizzes 20%
- Tests 50%

Participation will include such factors as attendance, punctuality to class, student preparation, class notes, cooperative attitude and contribution to the class' learning environment.

Homework will be graded on completeness not accuracy.

Edline will be used to communicate grades to students and parents. Assignments will also be posted on Edline.

Required Student Materials:

Textbook: Glencoe Mathematics Algebra 1 (2003 edition)

Class notebook or binder.

Graph paper

Calculator TI-83 or TI-84 series

Pencil

Eraser

Red Marking Pen

Attendance Policy:

Your attendance and participation in each unit and lesson of this course is crucial. If you miss class, the Grace Academy student policies will apply.

Expectations:

Students are expected to:

- Be on time to class. Please sharpen pencils, go to lockers or restroom etc between bells.
- Bring required materials to class.
- Be prepared to discuss any assigned readings or homework.
- Complete homework assignments on time.

Please feel free to contact me via email or call me at the school if you have any questions or concerns. I appreciate your support and look forward to a very productive semester!

Parent Signature: _____

Parent E-mail: _____

Student Signature: _____

Student E-mail: _____