

## Math 3 (Regents)

**Teacher:** Mrs. Goodwill

**Textbook:** AMSCO's Algebra 2 and Trigonometry

**Grading:** Homework 30%

Class preparedness/participation 10%

Tests 40%

Quizzes 20%

Homework will be given on a regular basis. Homework that is collected will be graded out of ten points. Graded homework that does not receive at least eight points will need to be corrected and returned. Once that homework is corrected it can receive a maximum of nine points. Homework that you choose not to correct will receive a zero. Corrections must be turned in before each unit exam. Late homework will not be graded after 3 school days. It will receive an automatic zero. Homework that we go over in class can not be made up.

All homework and papers turned in must include the appropriate heading. Papers without the appropriate heading will be returned and considered missing or late.

You are given several weeks notice for all field trips. There will be no extensions given for homework. Homework due the day of the field trip is to be turned in before you leave. You are expected to be prepared for class the day you return with your homework completed. You will be given one day for each day you are absent to make up work.

<. You are responsible to be prepared when you come to class. That includes book, paper, pencil, homework and calculator. Not being prepared will cause you to lose class preparedness points.

<. Points will be given each day for appropriately participating in class.

< Keep a 3-ring binder notebook. (Including all tests, quizzes, handouts, and homework assignments)

< You will need a graphing calculator. We use the TI - 83 plus calculator which is approximately \$98.00 at Walmart if you would like your own. The school does have calculators that the students may borrow if you choose not to buy one.

< Use pencils, no pens for all homework, tests and quizzes.

< The Algebra 2 and Trigonometry Assessment Examination will be given in June.

< I am available to give extra help after school. Don't get behind. See me for help as soon as needed.

### **Classroom Discipline Procedures:**

1. Be to class on time
2. Bring your book, notebook, calculator, homework, and pencils to class

3. No profanity
4. Be cooperative, courteous, and respectful

Violations of any of the above will result in:

- a verbal warning
  - a phone call to your parent
  - referral to the office
  - after school detention with teacher
5. Only water in a clear container may be consumed. Don't even bring the rest to class, it will be confiscated and thrown away.
  6. Repeated failure to complete homework assignments will result in after school detention

**Math 3 Syllabus** - We will be covering the following topics this year.

Ch 2 - Rational Expressions

- a. Reducing Rational Expressions
- b. Adding and Subtracting
- c. Multiplying and Dividing
- d. Simplifying Complex Fractions
- e. Solving Fractional Equations

Ch 1- The Integers

- a. Absolute-Value Equations and Inequalities
- b. Operations with Radicals
- c. Quadratic Equations

Ch 13 - Transformations

- a. Transformations and Functions and Coordinate Geometry
- b. Compositions

Ch 4 - Relations and Functions

- a. Relating Graphs to Life Situations
- b. Function Notation
- c. Types of Functions
- d. Conics

Ch 9/10 - Trigonometric Functions

- a. The Right Triangle
- b. Sine, Cosine and Tangent Functions
- c. Reference Angles
- d. Pythagorean Identities

Ch 11 - Trigonometric Graphs

- a. Graphing Sine, Cosine, and Tangent Curves
- b. Graphs of Reciprocal Functions
- c. Reflections and Reciprocal Functions

Ch 7 - Exponential Functions

- a. Law of Exponents
- b. Fractional Exponents
- c. Exponential Equations

Ch 8 - Logarithmic Functions

- a. Logarithmic Form of an Equations
- b. Common Logarithms
- c. Exponential Equations
- d. Logarithmic Equations

Ch 14 - Trigonometric Applications

- a. Law of Cosines and Sines
- b. Area of a Triangle
- c. Forces

Ch 12/13 - Trigonometric Equations and Identities

- a. Basic Identities
- b. Proving Identities
- c. Cosine and Sine Sum and Differences
- d. Tangent Sum and Differences
- e. Double Angles and Half Angles
- f. Trigonometric Equations

Ch 5 - Complex Numbers

- a. Operations with Complex Numbers
- b. Solving Equations with Imaginary Roots
- c. Solutions of Systems of Equations

Ch 16 - Probability

- a. Permutations and Combinations
- b. Binomial Theorem

Ch 15- Statistics

- a. Measures of Central Tendency and Dispersion
- b. Normal Distribution
- c. Two-Valued Statistics

Ch 6 Sequences and Series

- a. Arithmetic and Geometric Series
- b. Arithmetic and Geometric Sequences

Ch 3 Real numbers and Radicals

- a. Operations with radicals
- b. Rationalizing a Denominator
- c. Solving Radical Equations

Parents please read through this with your child. Detach the following, sign that you have discussed the above with your child and return to me by September 9, 2011. Your child will have an after school detention if this is not returned.

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I have read and discussed the above Math rules and guidelines with my child.

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Parent signature

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Student signature