

# Pre- Algebra Syllabus

7<sup>th</sup> Grade \* 2009 - 2010 \* Miss Rosales

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Office Hours: By appointment at break, lunch, or after school.



**Course Description:** Throughout the course of the year, you will learn to use basic principles of algebra to analyze and represent proportional and non-proportional linear relationships. You will apply operations to situations involving rational numbers as well as use probability and statistics to make predictions. You will develop a more sophisticated way of dealing with word problems by applying these skills.

## **Required Materials:**

- Glencoe Mathematics *Pre-Algebra*
- Spiral notebook for notes
- Loose-leaf college-ruled and graph paper for assignments
- Mechanical pencils and eraser
- Lead for mechanical pencils
- Red pen for corrections
- Ruler in inches and centimeters
- TI-83 or TI-83+ calculator

## **Benchmarks and Performance Standards:**

After completing the course work for Pre-Algebra, students will:

- Solve linear equations and model real-world situations using linear equations.
- Compare and order integers.
- Perform operations with integers (addition, subtraction, multiplication, division).
- Graph points on the coordinate plane.
- Convert fractions and decimals to percentages; convert percentages to fractions and decimals.
- Calculate percentage of change.
- Solve proportions.
- Construct and interpret bar graphs and circle graphs.
- Find the mean, median, mode, and range for a set of data.
- Express rational numbers as decimals and decimals as fractions.
- Find the probability of a simple event.
- Express numbers in scientific notation.
- Perform operations with fractions.
- Identify and use rational number properties.
- Solve problems involving scaled drawings.
- Identify and classify numbers in the real number system.
- Graph linear equations.
- Simplify, add, and subtract polynomials.
- Multiply monomials and polynomials.
- Know how to use the graphing capabilities and other functions of the TI-83 calculator.

## **Algebraic Concepts Covered in this Course**

### **First Semester**

- Ch. 1: The Tools of Algebra
- Ch. 2: Integers
- Ch. 3: Equations
- Ch. 4: Factors and Fractions
- Ch. 5: Rational Numbers

### **Second Semester**

- Ch. 6: Ratio, Proportion, and percent
- Ch. 7: Functions and Graphing
- Ch. 8: Equations and Inequalities
- Ch. 12: Statistics and Probability
- Ch. 13: Polynomials and Nonlinear Functions

## CLASS INFORMATION AND EXPECTATIONS

### Classroom Guidelines:

- Arrive to class on time
- Be prepared with supplies, homework
- Show respect for others
- Ask questions!
- Utilize resources and time efficiently and properly
- Listen carefully and follow directions
- Engage and work hard in class

**Attendance:** Every day is important! Your success in this course is directly related to how often you are present. If you are absent, it is your responsibility to get the work and notes that you missed. **If you are on campus during any portion of the school day, your homework for that day will be due and any scheduled quizzes or tests must be taken.** It is your responsibility to come see me if you arrive late to school or leave early and miss my class period.

If you miss the class the day before a test and return the day of the test, you will be expected to take the test as scheduled. If you have missed two or more days before a test and return the day of the test, come see me and we can make arrangements for you to take the test at a later date.

**Grading:** Students earn their math grades by actively participating in class and completing classwork, homework, quizzes, projects, participation, tests and semester exams. Students will be provided with a grade sheet to help them track their grade in the course throughout the semester

**Assignments that are submitted without a name will receive a grade of zero on the assignment.**

**Homework:** Homework is assigned regularly. Homework is due at the beginning of class on the day after the assignment is given. Assignments will also be listed on the class web page. Missed homework cannot be made up (except for excused absences). See "**Late Work**" below for further information.

All regular homework assignments must include the proper heading as shown below, the assignment name, each problem written as in the text, sufficient work in a neat and organized way, as well as the student's proposed solution. Students are expected to check the odd-numbered problems in the back of the book before class. Use a red pen to show that the work has been corrected. There is additional help available on [www.HotMath.com](http://www.HotMath.com). The password is **xe63070de**.

○	Name	Date
	Subject	Period/Grade
	Name of Assignment	

**Tests and Quizzes:** Students will be notified in advance of quizzes and tests. All graded tests and quizzes will be sent home, reviewed by parents and signed before being returned to school. All tests and quizzes are to remain in students' classroom portfolios, but can be reviewed by students during break or by appointment. This year, students will regularly take timed drills to further develop their proficiency in core operations. The scores on these drills will be averaged and will contribute to the students' overall grade.

**Late Work:** Students will be given TWO late homework passes per quarter and may submit up to two late assignments with the homework pass within a week of the original due date to receive full credit. Late work slips may be used only for certain assignments made specific by the teacher. For each pass that is not used by the end of the semester, bonus points will be awarded.

**Textbooks:** The student textbook should be covered at all times. In order to protect the texts, all mathematics textbooks should be covered using heavy-duty paper (grocery bag). Adhesive book covers and fabric book covers are not permitted.

Students are not required to bring their textbooks to class each day. Students will be told in advance to bring their textbooks when necessary. The textbook, as well as many supplementary materials, are available online. The Online Student Edition (OSE) can be accessed by visiting [www.pre-alg.com](http://www.pre-alg.com). Students will be provided with a passcode in class.

*\*\* Note: Miss Rosales retains the right to make changes, additions, and deletions to the course \*\*  
expectations throughout the course of the year. Students will be made aware of any changes.*

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Dear Students and Parents,

Please sign and return this portion of the page by **Friday, August 28, 2009**. If you have any questions, please feel free to contact me by email and I will promptly respond.

Thank you,  
Miss Rosales

Miss Rosales,  
We have read and understand the course syllabus for 7<sup>th</sup> Grade Pre-Algebra.

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Student Name (Print)

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Student Signature

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Date

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Parent/Guardian Name (Print)

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Parent/Guardian Signature

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Date