

# Pre-Algebra

## Course Overview and Syllabus

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**Course Number:** MA3119

**Grade Level:** 9

**Prerequisite Courses:** Math 8

**Credits:** 1.0

### Course Description

This full-year course is designed for students who have completed a middle school mathematics sequence but are not yet Algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in number and operations, expressions and equations, ratio and proportion, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

### Course Objectives

Throughout the course, you will meet the following goals:

- Perform operations with rational numbers and use them to simplify expressions
- Use mathematical and algebraic expressions and equations to represent and solve a variety of mathematical and real-world problems
- Understand the concept of a function and its use in representing relationships
- Exercise proportional thinking and use it to analyze the connection between ratio, proportion, and percent
- Understand geometric concepts and strengthen spatial reasoning
- Develop and use problem-solving strategies
- Use statistics to display, describe, and analyze data
- Understand counting methods, and apply them to calculate probabilities

### Student Expectations

This course requires the same level of commitment from you as a traditional classroom course would. Throughout the course, you are expected to spend approximately 5–7 hours per week online on the following activities:

- Interactive lessons that include a mixture of instructional videos and tasks
- Assignments in which you apply and extend learning in each lesson
- Assessments, including quizzes, tests, and cumulative exams

## Communication

Your teacher will communicate with you regularly through discussions, email, chat, and system announcements. You will also communicate with classmates, either via online tools or face to face, as you collaborate on projects, ask and answer questions in your peer group, and develop your speaking and listening skills.

## Grading Policy

You will be graded on the work you do online and the work you submit electronically to your teacher. The weighting for each category of graded activity is listed below.

Grading Category	Weight
Lesson Quizzes	30%
Unit Tests	30%
Cumulative Exams	20%
Assignments	20%
Additional	0%

## Scope and Sequence

When you log into Edgenuity, you can view the entire course map—an interactive scope and sequence of all topics you will study. The units of study are summarized below:

<b>Unit 1:</b> Number Sense	<b>Unit 7:</b> Geometry Basics
<b>Unit 2:</b> Expressions	<b>Unit 8:</b> Counting and Probability
<b>Unit 3:</b> Equations and Inequalities	<b>Unit 9:</b> Statistics
<b>Unit 4:</b> Ratios, Proportional Relationships, and Percents	<b>Unit 10:</b> Square Roots and Right Triangles
<b>Unit 5:</b> Number Properties	<b>Unit 11:</b> Two-Dimensional Geometry
<b>Unit 6:</b> Analytic Geometry	<b>Unit 12:</b> Three-Dimensional Geometry