Scope and Sequence

Content Area: **Mathematics**
Course(s): **Mathematics**
Time Period: **Full Year**
Length: **Full-Year**
Status: **Published**

Course Overview

Pre-Algebra is an introduction to basic algebra concepts and a review of arithmetic algorithms. This course is designed to emphasize the concepts necessary to be successful in Algebra 1. It will help students develop good mathematical study skills and learning strategies. The course begins with a brief review of the number system and operations with whole numbers, fractions, decimals, and integers. Then, students will cover solving one-variable equations, the laws of exponents, ratios, proportions, percents, area, volume, surface area, and statistics. Finally, students will preview concepts that will be studied in Algebra 1, including radicals, linear functions, and polynomials. The curriculum is sequential and builds upon previous units for the units that cover algebraic topics. This course is based on Grade 6 and Grade 7 New Jersey Student Learning Standards, as well as a preview of Grade 8 New Jersey Student Learning Standards.

Scope and Sequence

Order of the Unit	Title of the Unit	Time Frame
Unit 1	Variables, Expressions, and Integers	3 weeks
Unit 2	Solving Algebraic Equations	3 weeks
Unit 3	Decimals and Inequalities	3 weeks
Unit 4	Fractions, Factors, and Exponents	3 weeks
Unit 5	Rational Numbers, Operations, and Equations	3 weeks
Unit 6	Ratio, Proportion, and Probability	3 weeks
Unit 7	Percents	3 weeks
Unit 8	Geometry	3 weeks
Unit 9	Statistics	4 weeks
Unit 10	Radicals, Systems of Measurement, and PARCC	4 weeks
Unit 11	Linear Functions and Final Review	4 weeks
Unit 12	Polynomials	2 weeks

Date of Board Approval

This curriculum was approved by the Green Brook Board of Education on August 28, 2017.