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.

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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.