

Avon School Mathematics Curriculum

Grade 7

Curriculum Overview

In grade 7, instructional time should focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; (4) drawing inferences about populations based on samples.

The topics within this map are color coded to display the domains in which they correlate:

Ratios and Proportional Relationships

The Number System

Expressions and Equations

Geometry

Statistics and Probability

Reference: New Jersey Department of Education. New Jersey Student Learning Standards, 2016.

Reference: New Jersey Department of Education Division of Teaching and Learning. Curricular Framework, 2016.

Topic Title	Timeframe	New Jersey Student Learning Standards
Week 0 - Ready Math	First Week	6.RP.A.3, 6.RP.A.3.A, 6.RP.A.3.B, 6.RP.A.3.D
Unit 1: Ratios, Rates, and Circles	September - November	7.G.A.1, 7.RP.A.1, 7.RP.A.2, 7.RP.A.2b, 7.RP.A.2c, 7.RP.A.2a, 7.RP.A.2d, 7.RP.A.3, 7.G.B.4
Unit 2: Add and Subtract Rational Numbers	November - December	7.NS.A.1, 7.NS.A.1a, 7.NS.A.1b, 7.NS.A.1c, 7.NS.A.1d
Unit 3: Multiply and Divide Rational Numbers	January	7.NS.A.2, 7.NS.A.2a, 7.NS.A.2b, 7.NS.A.2c, 7.NS.A.2d, 7.NS.A.3, 7.EE.B.3
Unit 4: Expressions, Equations, and Inequalities	February	7.EE.A.1, 7.EE.A.2, 7.EE.B.4, 7.EE.B.4a, 7.EE.B.4b
Unit 5: Percents and Statistical Samples	March	7.RP.A.3, 7.SP.A.1, 7.SP.A.2, 7.SP.B.3, 7.SP.B.4
Unit 6: Solids, Triangles, and Angles	April	7.G.A.2, 7.G.A.3, 7.G.B.5, 7.G.B.6
Unit 7: Theoretical Probability, Experimental Probability, and Compound Events	May - June	7.SP.C.5, 7.SP.C.6, 7.SP.C.7, 7.SP.C.7a, 7.SP.C.7b, 7.SP.C.8, 7.SP.C.8a, 7.SP.C.8b, 7.SP.C.8c