

Liberal Arts Mathematics 1 addresses the need for an elective course that focuses on reinforcing, deepening, and extending a student's mathematical understanding. Liberal Arts Mathematics 1 starts with a review of problem-solving skills before moving on to a variety of key algebraic, geometric, and statistical concepts. Throughout the course, students hone their computational skills and extend their knowledge through problem solving and real-world applications.

Course topics include problem solving; real numbers and operations; functions and graphing; systems of linear equations; polynomials and factoring; geometric concepts such as coordinate geometry and properties of geometric shapes; and descriptive statistics.

Within each Liberal Arts Mathematics 1 lesson, students are supplied with a scaffolded note-taking guide, called a Study Sheet, and are given ample opportunity to practice computations in low-stakes Checkup activities before moving on to formal assessment. Additionally, students will have the opportunity to formulate and justify conclusions as they extend and apply concepts through printable exercises and "in-your-own-words" interactive activities.

No required or optional materials.

Length: Two Semesters

Unit 1: Solving Equations and Inequalities

Unit 2: Functions

Unit 3: Linear Equations

Unit 4: Exponents and Exponential Functions

Unit 5: Polynomials

Unit 6: Quadratic Equations and Functions

Unit 7: Nonlinear Functions

Unit 8: Semester 1 Exam

Unit 9: Descriptive Statistics

Unit 10: Foundations of Geometry

Unit 11: Triangles

Unit 12: Right Triangles

Unit 13: Circles Without Coordinates

Unit 14: Constructions and Transformations

Unit 15: Three-Dimensional Solids



Unit 16: Semester 2 Exam
