

Core: Integrated Math I

Integrated Math I provides a first-year integrated math curriculum that combines material traditionally covered in high school algebra, geometry, and statistics courses. Integrated Math I is uniquely organized around thematic learning tasks that integrate concepts from the various strands of math. Within the course, a balance is struck between task-based discovery and focused development of skills and conceptual understanding. Course topics include function families, propositional logic, polynomials and factoring, similarity and congruence properties of triangles, introductory probability and statistics, square roots, rational expressions, and coordinate geometry. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Interactive tasks allow students to approach and explore topics through real-world situations, helping them to gain an intuitive understanding while learning at the appropriate depth and rigor of a standards-based curriculum. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development. Throughout the course, students develop general strategies to hone their problem-solving skills. The content is based on the National Council of Teachers of Mathematics (NCTM) Principles and Standards for School Mathematics, as well as the Georgia Performance Standards and Instructional Frameworks in Mathematics. Detailed correlations to state-specific standards are available on request.