

Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations.

Course topics include reasoning, proof, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and descriptive statistics.

This course supports all students as they develop computational fluency, deepen conceptual understanding, and apply South Carolina College and Career Ready (SCCCR) Mathematical Process Standards. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them. Throughout the course, students are evaluated through a diversity of assessments.

This course is built for the South Carolina College and Career Ready (SCCCR) Geometry standards.

No required or optional materials.

Length: Two Semesters

**Unit 1: Foundations of Geometry**

**Unit 2: Triangles**

**Unit 3: Right Triangles and Trigonometry**

**Unit 4: Quadrilaterals and Other Polygons**

**Unit 5: Circles**

**Unit 6: Semester 1 Review and Exam**

**Unit 7: Coordinate Geometry**

**Unit 8: Constructions and Transformations**

**Unit 9: Three-Dimensional Solids**

**Unit 10: Descriptive Statistics**



**Prescriptive  
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**Unit 11: Semester 2 Review and Exam**

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