



## **Geometry**

**Facilitator: Dave Miller**

**(B.S. in Mathematics Education, M.Ed. in Secondary Education)**

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**Course Description:** This college prep course meets the standards for 1 credit in Geometry under South Carolina's guidelines. Students will meet weekly to learn math concepts from a qualified instructor in a small group setting. The facilitator will design and administer occasional quizzes, a mid-term, and final exam. It is not required that a student use our suggested curriculum; however, the facilitator will set the pace for the online curriculum, Thinkwell Homeschool Geometry, by sending out weekly lesson plans. Thinkwell's Geometry course has daily video lessons taught by a qualified instructor, practice lessons, and automatic grading that gives an instant way to assess progress. Whether you need a complete geometry course or geometry homework help, the Pathways Geometry class has everything you need.

### **Objectives:**

- **Measuring and Constructing Segments and Angles**
- **Using Inductive and Deductive Reasoning**
- **Mathematical Proofs**
- **Parallel and Perpendicular Lines**
- **Triangle Congruence: SSS, SAS, ASA, AAS, HL, and CPCTC**
- **Medians, Altitudes, and Midsegments in Triangles**
- **Pythagorean Theorem**
- **Properties and Attributes of Polygons and Quadrilaterals**
- **Similarity Relationships**
- **Trigonometric Ratios**
- **Perimeter, Circumference, and Area of Two-Dimensional Shapes**

**Curriculum:** [www.thinkwellhomeschool.com](http://www.thinkwellhomeschool.com) Geometry (12 month subscription)

**\*\*Note:** It is not mandatory to use Thinkwell Geometry curriculum in order to take this course; however, that is the guide that will be used by the facilitator to set the pace for the class. Students who choose to use another curriculum are welcome to participate in the class.