

Department: **Mathematics**

Course Title: **Plane Geometry**

Grade Level: **10-11-12**

Length of Course: **Year long**

Primary Resources: Textbook: **Geometry by Larson, Boswell, Kanold, Stiff 2008**

Units of Study:

Prerequisite Unit: **Review of Algebra (Solving Linear Equations) (2 weeks)**

Unit 1 (Week Amount): **Essentials of Geometry (3 weeks)**

Unit 2 (Week Amount): **Reasoning and Proof (2 week)**

Unit 3 (Week Amount): **Parallel and Perpendicular Lines (3 weeks)**

Unit 4 (Week Amount): **Congruent Triangles (3 weeks)**

Unit 5 (Week Amount): **Relationships within Triangles (2 weeks)**

Unit 6 (Week Amount): **Similarity (3 weeks)**

Unit 7 (Week Amount): **Right Triangles and Trigonometry (4 weeks)**

Unit 8 (Week Amount): **Quadrilaterals (3 weeks)**

Unit 9 (Week Amount): **Properties of Transformations (2 weeks)**

Unit 10 (Week Amount): **Properties of Circles (2 weeks)**

Unit 11(Week Amount): **Measuring Length and Area (3 weeks)**

Unit 12 (Week Amount): **Surface Area and Volume of Solids (3 weeks)**

Curriculum-Based Assessments: **homework/classwork, quizzes, chapter tests, final exam**

Standardized Assessments: **N/A and (Keystone Exams re-takes)**

Description of Course:

Plane Geometry: This course satisfies the academic course's mathematics required and emphasizes topics covered by current college entrance exams.
Prerequisite: Algebra 1 and teacher recommendation