**GEOMETRY HONORS SYLLABUS**

**Sharyland Advanced Academic Academy**

**Mrs. Ann Marie Priolo**

Room 216 Ext. 4420 apriolo@sharylandisd.org

Conference time: 5th Block

**Course Description:**

Topics covered include the language of geometry (points, lines, planes and angles), reasoning and proofs (paragraph, two column, flow, indirect, and coordinate), parallel and perpendicular lines, congruent triangles, applications of congruent triangles, quadrilaterals, similarity, right triangles and trigonometry, circles, polygons and area, surface area and volume, coordinate geometry, and transformations.

**Course Objective:**

Students will acquire and demonstrate knowledge of concepts, definitions, properties, and applications of the topics listed above as well as develop the computational skills and strategies needed to solve problems. Students will develop critical thinking and decision making skills by connecting concepts to practical applications.

**Curriculum Resources:** Geometry TEKS using textbook: Pearson Texas Geometry, Kagan Structures, College Board Pre-AP, Saxon Math Kahn Academy, and others

**Grading: (**\*\*See district grading policy for specifications\*\*)

**60% Major Assignments:** Tests, Reports, Projects

**40% Minor Assignments**: Classwork, Homework, Study Guides, Quizzes, Vocabulary, Workbook, and Binders

*Unexcused late assignments (minor grades): 1-day late earn 90% maximum, 2 days late earn 80% max., 3 days late earn 70% max.*

**Required Materials:                                         Expectations:**

* **Binder (Geometry only) with Loose Leaf Paper** \*Follow School Rules
* **Spiral or Journal Notebook** \*Be prompt
* Pencil, pen, & colored pencils or markers                    \*Be prepared
* Compass & protractor  (optional for Topics 1,3,11)       \*Be respectful, kind, and tolerant
* Graph Paper                                                   \*Be responsible
* Batteries/Hand sanitizer/Tissues (as needed) \*Be the best you can be!
* **TI-84 Calculator - Check out from Library!**

**Tutoring: (Refer to the Math Department Schedule, TBA)**

Monday -Thursday: before school / during lunch/ after school or by appointment.

Special tutoring sessions will be announced, posted and sent through Remind/Google Classroom.

Peer tutoring is encouraged. Students are invited to use room 216 when it is available.

**Course Schedule:  (***This is tentative and subject to change.) We will cover about 2 sections each day. Each topic will include at least one review and test.*

***Unit 1:  Logical Argument and Constructions; Proofs and Congruence***

**Topic 1:  Tools of Geometry (1-1 through 1-5)**

**Topic 2:  Reasoning and Proof (2-1 through 2-6)**

**Topic 3:  Parallel and Perpendicular Lines (3-1 through 3-9)**

**Topic 4:  Congruent Triangles (4-1 through 4-7)**

**Topic 5:  Relationships Within Triangles (5-1 through 5-8)**

**Topic 6:  Polygons and Quadrilaterals 6-1 through 6-6)**

***Unit 2:  Coordinate and Transformational Geometry***

**Topic 7:  Coordinate Geometry (7-1 through 7-3)**

**Topic 8:  Transformational Geometry (8-1 through 8-8)**

***Unit 3:  Similarity, Proof, and Trigonometry***

**Topic 9:  Similarity (9-1 through 9-5)**

**Topic 10:  Right Triangles and Trigonometry (10-1 through 10-4)**

***Unit 4:  Circles***

**Topic 11:  Circle Measurement (11-1 through 11-4)**

**Topic 12:  Theorems About Circles (12-1 through 12-4)**

***Unit 5:  Two-Dimensional And Three-Dimensional Figures***

**Topic 13:  Area (13-1 through 13-5)**

**Topic 14:  Surface Area and Volume (14-1 through 14-7)**

***Unit 6:  Probability***

**Topic 15:  Probability (15-1 through 15-6)**

**By signing this page** and giving it to Mrs. Priolo, I am confirming that I have read carefully, understand and agree with and will follow all of the guidelines, statements and requirements of this class. I understand that the grade I earn in this class is my responsibility to earn and to track with Skyward. I understand that our class is a learning community. I will support my learning and the learning of my classmates and instructor by coming to class prepared, participating fully and completing my work. I commit to giving my best effort throughout the year of and seek out my fellow students to support my success.

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**Student Name/Signature ID# Date**

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**Parent Name/Signature cell# /email address Date**