Geometry Syllabus

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Welcome to Geometry! I look forward to getting to know each of you and pursuing truth and beauty in mathematics with you, specifically in Geometry (derived from Greek words meaning "earth measurement"). We aspire to find joy in learning as we explore the beauty of math as it appears in the world around us.

Our goal this year is to <u>think mathematically</u> and <u>learn concepts and strategies</u> that will promote success in your life!

Class Expectations:

- Love, respect, and protect one another.
- We will discuss and develop the specific application of ideals at the beginning of the year.
- Students can expect to have homework every day. We will have approximately two quizzes per Module and one test per Unit.
- Each day, students will check their homework, review some algebra, and learn new Geometry content. Class time is reserved for guided practice. Homework provides students with time for independent practice outside of class.

Course Description:

Geometry (the branch of mathematics starting from the perspective of a figure) measures, compares, and analyzes 0-, 1-, 2-, and 3-dimensional figures. Beginning with accurate definitions of terms, we will discover and prove relationships between figures. Henceforth, mathematicians will work back and forth between the figure, its graph (picture), and its equation. In Geometry, we lay the foundation of the picture.

Course Outline:

In this course we plan to cover the following Geometry topics:

First Semester:
- Essential in Geometry (Planes/Reasoning/Proofs)
- Parallel and Perpendicular Lines
- Transformations
- Triangle Congruence
- Relationships with Triangles

Second Semester:
- Quadrilaterals/Polygons/Triangle Similarity
- Right Triangle Trigonometry
- Properties of Circles
- Surface Area/Volume
- Probability

Textbook:

Burger, Edward B., et al. *Into Geometry*. Houghton Mifflin Harcourt Publishing Company, 2020.

Supplies:

- TI-83 or TI-84 graphing calculator
- Dry erase markers (6 or more)
- Paper (lined and graph)
- 1 pack of 100 3x5 index cards
- A way to take notes (suggestions: 3-ring binder or composition notebook)
- Geometry tools (must last all year)
  - Sturdy compass– Staedtler and Mr. Pen offer reliable options (NO Plastic)
  - Protractor (see-through)
  - Ruler (centimeters required)
- 1 box of tissues

Grading Percentages

Homework/Participation: 30%
Quizzes: 10%
Assessments: 60%

A 93 – 100	B 83 – 86	C 73 – 76	D 63 – 66
A- 90 – 92	B- 80 – 82	C- 70 – 72	D- 60 – 62
B+ 87 – 89	C+ 77 – 79	D+ 67 – 69	F 0 – 59

Homework Policies:

- Expect homework to be assigned every day which will be due at the beginning of class
- For **full credit**, homework must be on time, with all work shown, formatted correctly, and neatly completed.
- Late policy:
  - Write *Absent* or *Late* on the top of the assignment as appropriate.
  - Maximum of 50% credit for late work (unless late for excused absence).
  - Late work will be accepted until the day of its respective test.

Test Policies:

- You are expected to take each test on the day it is scheduled; if you have extenuating circumstances, please advocate for grace.
- Please use tests as an opportunity to prepare for future use of the concepts, assessing your understanding earlier in the year so that you can appropriately address your cognition.