



ECHS Geometry Pre-AP Instructional Plan: Fall 2026

Course Overview

In Geometry, we will cover many topics. In the fall, we learn about the following concepts: points, lines, planes, parallel/perpendicular lines, angle relationships, transformations, triangle similarity, congruent triangles, constructions using protractors and compasses, and reasoning/proofs. When learning about these topics, we will complete notes assignments, activities, and projects. Partner work and discussion are a large component in this course.

Contact Information

Teacher Name: Sarah Garcia

Email: sarah.garcia@midlandisd.net

Phone: (432) 240-5000

Location: RM AFA109, Early College High School @ Midland College

Classroom Expectations

- Be seated and ready to go with materials when class starts
- Be RESPECTFUL and ENCOURAGING to everyone in the classroom
- Follow all school rules and policies

Required Materials:

- Pencil
- 1 100-page Composition notebook
- 4 different color HIGHLIGHTERS (we use these almost daily!!!)
- Charged Chromebook (please bring charger to school)
- TI-36 Calculator

Attendance Policy & Its Importance

It is the student's responsibility to see or email me for makeup work. For every day of school the student misses, they will have the same number of days to make up the work. If a student misses a test or quiz, they will have **one** week to come to tutorials to make up the test/quiz. Regular attendance is vital to your child's academic development. When students attend daily, they develop thinking skills and practice important habits that support lifelong learning. Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years.

Please notify the school if your child will be absent. Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years.

Learning Objectives

Below is the tentative plan for the semester. By the end of the first semester, students will be able to solve problems based on the following units.

First 9 Weeks

Unit 1: Logic

- Truth Tables



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- Inductive Reasoning- Conjectures and Counterexamples
- Conditional, Converse, Inverse, and Contrapositive statements
- Algebraic Proofs

Unit 2: Geometry Basics

- Naming PLP
- Midpoint Formula
- Distance Formula
- Fractional Distance
- Segment Addition
- Writing Linear equations in either point-slope or slope-intercept form
- Finding Parallel, Perpendicular, and Skew from equations and points.
- Parallel, Perpendicular, and skew lines comparing slope

Unit 3: Lines

- Angles Vocab- Acute, Obtuse, Straight, Right, Supplementary, Complementary, Vertical, Perpendicular, Adjacent
- Angle Addition
- Naming transversals and parallel lines
- Naming and solving for Angles created by transversals
- Line Proofs

Second 9 weeks:

Unit 4: Classifying Triangles

- Classify by angles and sides
- Congruency Statements
- Solve for isosceles and Equilateral triangles
- Triangle sum Thrms
- CPCTC Proofs (Prove why triangles are congruent and then CPCTC)

Unit 5: Comparing Triangles

- Triangle Inequality Thrm
- Hinge Thrm
- Exterior Angle
- Angle bisector
- Perpendicular bisector
- Median
- Altitudes
- Angle side Relationships
- Proofs comparing triangles
- Extras if we have time: Orthocenter, centroid, circumcenter, incenter

Unit 6: Similarity

- Ratio/Proportions



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- Similar Polygons
- Similarity Statements
- Scale factor
- Similar triangles
- Triangles proportionality
- Midsegment

Unit 7: Transformations

- Reflections
- Translations
- Rotations
- Dilation
- Extras if we have time: Constructions (if not will complete in the Spring)

Course Resources

- Savvas Envision+, Eduphoria, Get More Math, Canvas

Grading Policy

Major (60%): Test and Projects

-Test: **Students are expected to show up to the test with their review finished.** They will only be allowed their calculator and scratch paper on the test. **Students MUST attempt every problem.** If they don't attempt every problem, they will **not** be allowed a retake. Please note that anyone with a grade below 75 will be **required** to attend Monday afternoon tutorials and, if they like, will have the rest of the week to come in for a retake after school. The highest score they may receive on a retake is a 75. If students are not happy with a test grade above a 75, there will be an extra credit opportunity at the end of each 9 weeks to add up to 10 points to a single test or split up between multiple tests/assignments. Students may come in and see what questions they missed **after every class has completed the test**, but they will **not** receive any partial credit back.

-Projects: We will have several projects throughout the year, and students will be required to complete these outside of class hours. Projects are individual work and should not be completed in a group.

Minor (40%): Homework, Get More Math (Weekly online homework) , and Quizzes

-GMM expectations: All students' GMM will be due at 8 am on Friday, **NO EXCEPTIONS.** GMM covers topics from previous weeks, so even if your student is absent, they should be able to complete the GMM. **Students will not be allowed to complete GMM late.**

-Homework expectations: Students are expected to complete all other assignments and have them turned into their class basket at the **start** of class on due date. Please note, anyone who has a grade below 75 will be required to attend Monday afternoon tutorials.

- Quizzes: These happen when I want to check for understanding during a unit.



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Cheating: Cheating will not be tolerated and will result in parents and administration being notified. Consequences will be determined by the severity of the situation.

Tutorials: I have tutorials most days after school. If your student has below a 75, they will be required to attend tutorials on Mondays from 4-4:30 pm.

School-wide System of Communication:

Geometry students and guardians will receive a weekly email midweek. This email will cover what we are learning, assignment due dates, and any other important information.

MISD Personal Devices Policy, per Texas State Law:

Students shall not use a personal telecommunications device, including, but not limited to, a cell phone and wearable technology such as the Apple Watch, smartwatches, fitness watches, paging device, radio device, or any device capable of receiving notifications or facilitating communication on school property during the school day. A student's personal telecommunications device shall be left at home or turned completely off and stored in a backpack for the entirety of the school day. There is no warning to this policy. If the device is seen or heard on MISD campuses, it will be taken to the office and picked up by the end of the day after the student and/or parent pay a fee. More offenses lead to ISS and other consequences.

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!

Please fill out the portion below and return this portion to your teacher.

We acknowledge that we have read and that we understand the expectations in PreAP Geometry. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name: _____

Parent Signature: _____

Student Name: _____

Student Signature: _____

Date: _____