

**PECOS HIGH SCHOOL
GEOMETRY
Syllabus**

Student Expectations:

Identify and model points, lines, and planes. Identify collinear and coplanar points and intersecting lines and planes in space.

August 27: Class rules, books, and Instructions, Diagnostic test, Chapter 1, section 1-1.

Student Expectations:

Measure segments and determine accuracy of measurement. Compute with measures.

September 3: Chapter 1, section 1-2.

Student Expectations:

Find the distance and determine accuracy of measurement. Find the midpoint of a segment. Measure and classify angles. Identify and use congruent angles and the bisector of an angle.

September 10: Chapter 1, sections 1-3 and 1-4.

Student Expectations:

Identify and use special pairs of angles. Identify perpendicular lines. Identify and name polygons. Find perimeter or circumference and area of two-dimensional figures. Identify three-dimensional figures. Find surface area and volume.

September 17: Chapter 1, sections 1-5, 1-6 and 1-7.

Student Expectations:

Identify three-dimensional figures. Find surface area and volume.

September 24: Chapter 3, sections 3-1 and 3-2.

Student Expectations:

Use the properties of parallel lines to determine congruent angles. Use algebra to find angle measures.

October 1: Chapter 3, section 3-2. Six Weeks Test Week - Benchmark

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Student Expectations:

Find slopes of lines. Use slope to identify parallel and perpendicular lines.
Write an equation of a line given information about its graph. Solve problems by writing equations.

October 8th: Chapter 3, sections 3-3 and 3-4

Student Expectations:

Recognize angle conditions that occur with parallel lines. Prove that two lines are parallel based on given angle relationships.

October 15th: Chapter 3, sections 3-5 and 3-6

Student Expectations:

Identify and classify triangles by angles and sides.
Apply the Angle Sum Theorem
Apply the Exterior Angle Theorem
Name and label corresponding parts of congruent triangles.
Identify congruence transformations.

October 22nd: Chapter 4, sections 4-1, 4-2 and 4-3

Student Expectations:

Use the SSS, SAS, ASA postulates to test for triangle congruence. Use the AAS theorem to test for triangle congruence.

October 29th : Chapter 4, sections 4-4 and 4-5

Student Expectations:

Use properties of isosceles triangles. Use properties of equilateral triangles.
Identify and use perpendicular bisectors and angle bisectors in triangles.
Identify and use medians and altitudes in triangles.

November 5th: Chapter 4 and 5, 4-6 and 5-1

Student Expectations:

Recognize and apply properties of inequalities to the measures of angles of a triangle and the relationships between angles and sides of a triangle.

November 12th: Chapter 5, section 5-2, 2nd Six Weeks Test Week - Benchmark