

Eustace High School
Geometry Objectives

1st Six Weeks

Coordinate Geometry and Transformation

- Graphing Linear Equations
- Writing Equations of Lines
- Scatter Plots and Slopes
- Coordinates in Space
- Mapping
- Reflections
- Translations
- Rotations
- Dilations

2nd Six Weeks

Points, Lines & Plane

- Coordinate Plane
- Segment Measurement
- Midpoints & Congruence
- Angle Classification
- Inductive and Deductive Reasoning
- Parallel Lines with Transversals
- Parallel Lines and Angles
- Distance Formula & Shortest Distance

3rd Six Weeks

Triangle Classification

- Angle Measurement in Triangles
- Congruent Triangles
- Verify Triangle Congruence
- Isosceles Triangles
- Triangles & Special Segments
- Triangle Inequalities

4th Six Weeks

Quadrilaterals

- Parallelograms
- Rectangles
- Squares
- Rhombi
- Trapezoids

Proportions & Similarity

- Similar Triangles
- Similar Polygons
- Parallel Lines & Segment Proportions
- Fractals & Self-Similarity

5th Six Weeks

Right Triangles & Trigonometry

- Geometric mean & Pythagorean Theorem
- Special Right Triangles
- Right Triangle Ratios

Analyzing Circles

- Circles, Angles and Arcs
- Arcs and Chords
- Inscribed Angles
- Tangents
- Secants and Angle Measures
- Special Segments

6th Six Weeks

Exploring Polygons and Area

- Polygons
- Tessellations
- Area of Parallelograms
- Area of Rhombi, Triangles, and Trapezoids
- Area of Polygons and Circles

Surface Area and Volume

- Surface Area and Volume of Prisms and Cylinders
- Surface Area and Volume of Pyramids and Cones
- Surface Area and Volume of Spheres