

Geometry Curriculum

This is a one year college prep class. The Geometry course is an investigation of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. Topics include points, lines and planes, logic and proof, parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, trigonometry, and analytic geometry. Emphasis will be placed on developing critical thinking skills as they relate to logical reasoning and argument. Students will be required to use different technological tools and manipulatives to discover and explain much of the course content. The Math Practice will complement these critical content standards so that students engage with the subject matter as they grow in mathematical mastery during their high school years.

Chapter Topic List:

1. Points, Lines, Planes and Angles
2. Deductive Reasoning
3. Parallel Lines and Planes
4. Congruent Triangles
5. Quadrilaterals
6. Inequalities in Geometry
7. Similar Polygons
8. Right Triangles
9. Circles
10. Areas of Plane Figures
11. Areas and Volumes and Solids
12. Coordinate Geometry
13. Transformations