Geometry - May & June 2025

Office Hours: A Lunch on Monday / Tuesday / Thursday in Room 500 or 501

Monday	Tuesday	Wednesday	Thursday	Friday
28 April *6.3 & 6.4*	*29* *6.5 & 6.6*	*30* *Topic 6 Review*	*1* *Topic 6 Quiz*	*2* *7.1 Notes*
5 *7.2 Notes*	*6* *7.3 Notes*	*7* *7.1 - 7.3 Review*	*8 END MP5* *7.1 - 7.3 Quiz*	*9 MP6* *7.4 Notes*
12 ½ Day *7.5 Notes*	*13* *7.4 - 7.5 Review*	*14* *7.4 - 7.5 Quiz*	*15* *10.1 Notes*	*16* *9.3 Notes*
19 *10.2 Notes*	*20* *10.1/10.2/9.3 Review*	*21* *10.1/10.2/9.3 Quiz*	*22* *Practice*	*23 ½ Day* *10.3 Notes*
26 *NO SCHOOL*	*27* *10.4 Notes*	*28* *10.5 Notes*	*29* *10.3 - 10.5 Practice*	*30* *Field Day*
2 JUNE **10.3 - 10.5 Review**	**3** **10.3 - 10.5 Quiz**	**4** **11.1 Notes**	**5** **11.1 Practice**	**6** **11.2 Notes**
9 **11.3 & 11.4 Notes**	**10** **Topic 11 Review**	**11** **Topic 11 Quiz**	**12** **5.1 & 5.2 Notes**	**13** **5.3 Notes**
16 ½ Day **Final Reviews** **Period 1: 710-939** **Period 2: 946-1149**	**17 ½ Day** **Final Reviews** **Period 3: 710-939** **Period 4: 946-1149**	**18 ½ Day** **Final Exams** **Period 1: 710-939** **Period 2: 946-1149**	**19 ½ Day** **Final Exams** **Period 3: 710-939** **Period 4: 946-1149**	**20** **NO SCHOOL**
23 LAST DAY!				

Objectives

Topic 5

- Prove the Perpendicular Bisector Theorem, the Angle Bisector Theorem, and their converses.
- Use the Perpendicular Bisector Theorem to solve problems.
- Use the Angle Bisector Theorem to solve problems.
- Prove that the point of concurrency of the perpendicular bisectors of a triangle, called the circumcenter, is equidistant from the vertices.
- Prove that the point of concurrency of the angle bisectors of a triangle, called the incenter, is equidistant from the sides.
- Identify special segments in triangles and understand theorems about them.
- Find and use the point of concurrency of the medians of a triangle to solve problems and prove relationships in triangles.
- Find the point of concurrency of the altitudes of a triangle.

Topic 7

- Dilate figures on and off the coordinate plane
- Understand that two figures are similar if there is a similarity transformation that maps one figures to the other
- Use dilations and rigid motions to proves triangles are similar
- Prove and use AA Similarity, SSS Sim, SAS Similarity
- Use similarity of right triangles to solve problems
- Use Side-Splitter Theorem and the Triangle Midsegment Theorem to find lengths of sides and segments of triangles

Topic 10

- Calculate the length of an arc when the central angle is given in degrees or radians.
- Calculate the area of sectors and segments of circles.
- Identify lines that are tangent to a circle using angle measures and segment lengths.
- Solve problems involving tangent lines.
- Prove and apply relationships among chords, arcs, and central angles.
- Find lengths of chords given the distance from the center of the circle, and use this information to solve problems.
- Identify and apply relationships among the measures of inscribed angles, arcs, and central angles
- Identify and apply the relationships between an angle formed by a chord and a tangent to its intercepted arc.
- Recognize and apply angle relationships formed by secants and tangents intersecting inside and outside a circle.
- Recognize and apply segment length relationships formed by secants and tangents intersecting inside and outside a circle.

Topic 11

- Use Euler's Formula to calculate the number of vertices, faces, and edges in polyhedrons.
- Describe cross sections of polyhedrons.

- Describe rotations of polygons about an axis.
- Understand how the volume formulas for prisms and cylinders apply to oblique prisms and cylinders.
- Model three-dimensional figures as cylinders and prisms to solve problems.
- Understand how the volume formulas for pyramids and cones apply to oblique pyramids and cones.\
- Model three-dimensional figures as pyramids and cones to solve problems
- Use Cavalieri's Principle to show how the volume of a hemisphere is related to the volume of a cone and a cylinder.
- Calculate volumes and surface areas of spheres and composite figures.

Standards
HSG.CO.C.9, HSG.CO.C.10, HSG.CO.C.11, HSG.CO.D.12, HSG.C.A.3, HSG.SRT.B.5, MP 1-7