Class: Geometry Online

Teacher: Jenna Levenson

Dates: June 21–July 30, 2021 (6 weeks)

Time: 9:30 a.m.–12:30 p.m. (87 hours total in online distance learning)

Textbook Used: *Geometry,* ISBN: 978-0395977279

*Timeline subject to change based on class progress

Day	Sections	Topics
1	1.2–1.4	Points, Lines, Planes, Segments, Rays, Distance, and Angles
2	1.5, 2.2, 2.3	Postulates, Theorems and Properties
3	2.4, 2.5	Special Pairs of Angles and Perpendicular Lines
4	3.1–3.3	Parallel Lines and Planes
5	3.4, 3.5	Angles of Triangles and Polygons
6	4.1, 4.2, 4.5	Congruent Polygons and Triangles
7	4.3, 4.7, Supplement	Using Congruent Triangles, Medians, Altitudes, Perpendicular Bisectors and Constructions
8	7.1–7.3	Ratio, Proportions, and Similarity
9	7.4–7.6	Proving Similar Triangles and Using Similarity
10	8.1–8.3, 8.5, 8.6	Simplifying Radicals, Pythagorean Theorem w/ Converse, and Right Triangles
11	Supplement	Rigid Transformations: Translation, Rotations, and Reflections
12	Supplement	Non-Rigid Transformations: Dilations and Scale Factor
13	Review for Midterm	

14	**Midterm**	
15	5.1–5.2	Special Quadrilaterals: Parallelograms and Proving Quad is a Parallelogram
16	5.3–5.4	Special Quadrilaterals: Rectangle, Rhombus, Square, Trapezoid, Isosceles Trapezoid, and Kite
17	8.4, Supplement	Special Right Triangles and Radian Measure of Angles
18	11.1–11.4	Area: Rectangle, Rhombus, Triangle, Parallelogram, Trapezoid, and Regular Polygons
19	11.5, 11.6	Circles: Circumference, Area, Arc Length and Area of Sectors
20	9.1–9.4	Circles: Basic Terms, Tangents, Arcs, Central Angles, and Chords
21	9.5, 9.6	Circles: Inscribed Angles, Angles formed by Chords, Secants and Tangents
22	10.1, 10.3	Prisms and Cylinders
23	10.2–10.4	Pyramids, Cones and Spheres
24	Supplement	Rotating Solids, Density and Ratio and Area/Volume of Solids
25	13.1–13.3	Coordinate Geometry: Distance Formula, Slope, Parallel and Perpendicular Slopes
26	Supplement	Conic Sections: Circles and Parabolas
27	Supplement	Conic Sections: Ellipses and Hyperbolas
28	Review for Final	
29	**Final Exam**	

Assessment:

- Daily quizzes
- Midterm Examination
- Final Examination
- Homework may be assigned occasionally if extra practice is needed.