Geometry Curriculum Map

TOPIC & TEXTBOOK CHAPTERS	Duration	Month
Points, Lines, Planes & Angles Chapter 1: Points, Lines, Planes, Segments, Rays, Distance, Angles, Postulates and Theorems Relating Points, Lines and Planes, Associated Constructions	2 wks	Aug/ Sept
Deductive Reasoning Chapter 2: If-Then Statements, Converses, Properties from Algebra, Proving Theorems, Special Pairs of Angles, $\perp$ Lines, Proofs, Associated Constructions Supplemental: Inductive/deductive reasoning, conjectures, counter examples, conditionals, bi-conditionals, Venn diagrams, Algebraic proofs, props of equality and congruence, segment and angle proofs	3 wks	Sept/ Oct
Parallel Lines & Planes Chapter3: Parallel Lines, Properties of Parallel Lines, Proving Lines Parallel, Angles of a Triangle, Angles of a Polygon, Associated Constructions	2 wks	Oct
Congruent Triangles Chapter 4: Congruent Figures, Proving Triangles Congruent using SSS, ASA, SAS, AAS and HL, Using Congruent Δs in other Proofs, CPCTC, Isosceles Δ Theorems, Medians, Altitudes, $\perp$ Bisectors, Associated Constructions	2 wks	Oct
Quadrilaterals & Inequalities Chapter 5: Properties of Parallelograms, Proving Quadrilaterals as Parallelograms, Theorems Involving Parallel Lines, Special Parallelograms, Trapezoids	2 wks	Nov
Similar Polygons Chapter 7: Ratio and Proportion, Properties of Proportions, Similar Polygons, Postulates and Theorems for Similar Triangles, Proportional Lengths	2 wks	Nov/ Dec
Right Triangles & Trigonometry Chapter 8: Similar Right Triangles, Pythagorean Theorem and its Converse, Special Right Δs, Tangent, Cosine, Sine, Applications of Right Δ Trigonometry, Chapter 6: Δ Inequality	3 wks	Jan
Coordinate Geometry Chapter 13: Distance Formula, Circle Formula, Slope of a Line, Parallel and Perpendicular Lines, The Midpoint Formula, Graphing and Writing Linear Equations	2 wks	Jan/ Feb
Transformations, Permutations, and Combinations Chapter 14: Mappings, Reflections, Translations, Glide Reflections, Rotations, Dilations	2wks	Feb
Areas of Plane Figures Chapter 11: Areas of Rectangles, Parallelograms, Triangles, Rhombuses, Trapezoids, Regular Polygons and Circles; Ratio of Areas, Geometric Probability, Counting Outcomes, Permutations, Combinations	3 wks	Mar
Areas and Volumes of Solids Chapter 12: Prisms, Pyramids, Cylinders, Cones, Spheres, Similar Solids	2 wks	Apr
Circles Chapter 9: Tangents, Arcs, Central Angles, Chords, Inscribed Angles, Other angles, Arc Lengths, Areas of Sectors	3 wks	Apr/ May