Geometry Curriculum Map

TOPIC & TEXTBOOK CHAPTERS	Duration	Month
Unit 1: Points, Lines, Planes & Angles Chapters 1 & 2: Points, Lines, Planes, Segments, Rays, Distance, Angles, Postulates and Theorems Relating Points, Lines and Planes, Constructions	4 wks	Aug/ Sept
Unit 2 : Logic and Proof Out of textbook: Inductive/Deductive Reasoning, Conjectures, Counter Examples, Compound Statements, Truth Tables, Venn Diagrams, 2 Column Proofs	2 wks	Sept/Oct
Unit 3: Parallel Lines & Planes Chapter3: Parallel Lines, Properties of Parallel Lines, Proving Lines Parallel, Angles of a Triangle, Angles of a Polygon, Constructions	2 wks	Oct
Unit 4: 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, Constructions	2 wks	Oct/Nov
Unit 5: Quadrilaterals & Inequalities Chapter 5: Properties of Parallelograms, Proving Quadrilaterals as Parallelograms, Theorems Involving Parallel Lines, Special Parallelograms, Trapezoids	2 wks	Nov
Unit 6: Similar Polygons Chapter 7: Ratio and Proportion, Properties of Proportions, Similar Polygons, Postulates and Theorems for Similar Triangles, Proportional Lengths	2 wks	Nov/ Dec
Unit 7: 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
Unit 8: 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
Unit 9: Transformations Chapter 14: Mappings, Reflections, Translations, Glide Reflections, Rotations, Dilations	2 wks	Feb
Unit 10: 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
Unit 11: Areas and Volumes of Solids Chapter 12: Prisms, Pyramids, Cylinders, Cones, Spheres, Similar Solids	3 wks	MarApr
Unit 12: Circles Chapter 9: Tangents, Arcs, Central Angles, Chords, Inscribed Angles, Other angles, Arc Lengths, Areas of Sectors	3 wks	Apr/May