Geometry Curriculum Map

TOPIC & TEXTBOOK CHAPTERS	Duration	Month
Algebra Basics Chapter 1: Number Sets, Field Axioms, Variables, Expressions, Equations, Inequalities, Polynomials, Proving Properties from Axioms	2 wks	Sept
Deductive Reasoning Chapter 2: If-Then Statements, Converses, Properties from Algebra, Proving Theorems, Special Pairs of Angles, ⊥ 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
Points, Lines, Planes & Angles Chapter 3: Points, Lines, Planes, Segments, Rays, Distance, Angles, Postulates and Theorems Relating Points, Lines and Planes, Associated Constructions	2 wks	Oct
Parallel Lines & Planes Chapter3: Parallel Lines, Properties of Parallel Lines, Proving Lines Parallel, Angles of a Triangle, Angles of a Polygon, Associated Constructions	3 wks	Oct/No v
Congruent Triangles Chapter 4: Congruent Figures, Proving Triangles Congruent using SSS, ASA, SAS, AAS and HL, Using Congruent ∆s in other Proofs, CPCTC, Isosceles ∆ Theorems, Medians, Altitudes, ⊥ Bisectors, Associated Constructions	3 wks	Dec/Ja n
Right Triangles & Trigonometry Chapter 8: Similar Right Triangles, Pythagorean Theorem and its Converse, Special Right ∆s, Tangent, Cosine, Sine, Applications of Right ∆ Trigonometry, Chapter 6: ∆ Inequality	3 wks	Jan/Fe b
Transformations, Permutations, and Combinations Chapter 14: Mappings, Reflections, Translations, Glide Reflections, Rotations, Dilations	3 wks	Feb/M ar
Circles Chapter 9: Tangents, Arcs, Central Angles, Chords, Inscribed Angles, Other angles, Arc Lengths, Areas of Sectors	3 wks	Mar/A pr
Areas of Plane Figures Chapter 11: Areas of Rectangles, Parallelograms, Triangles, Rhombuses, Trapezoids, Regular Polygons and Circles; Ratio of Areas, Geometric Probability, Counting Outcomes,	3 wks	May

Permutations, Combinations		
Areas and Volumes of Solids Chapter 12: Prisms, Pyramids, Cylinders, Cones, Spheres, Similar Solids	3 wks	May/Jun