

Geometry Curriculum Map

Mr. Lovely, 2009 – 2010

TOPICS & TEXTBOOK CHAPTERS	Duration	Month(s)
Unit 1: Points, Lines, Planes & Angles <u>Chapter 1:</u> Points, Lines, Planes, Segments, Rays, Distance, Angles, Postulates and Theorems Relating Points, Lines and Planes	2 wks	Aug
Unit 2: Deductive Reasoning <u>Chapter 2:</u> If-Then Statements, Converses, Properties from Algebra, Proving Theorems, Special Pairs of Angles, Perpendicular Lines, Proofs	2 wks	Sept
Unit 3: Parallel Lines & Planes <u>Chapter 3:</u> Parallel Lines, Properties of Parallel Lines, Proving Lines Parallel, Angles of a Triangle, Angles of a Polygon	2 wks	Sept
Unit 4: Congruent Triangles <u>Chapter 4:</u> Congruent Figures, Proving Triangles Congruent using SSS, ASA, SAS, AAS and HL, Using Congruent Triangles in other Proofs, CPCTC, Isosceles Triangle Theorems, Medians, Altitudes, Perpendicular Bisectors	4 wks	Oct
Unit 5: Quadrilaterals <u>Chapter 5:</u> Properties of Parallelograms, Proving Quadrilaterals as Parallelograms, Theorems Involving Parallel Lines, Special Parallelograms, Trapezoids	3 wks	Oct/Nov
Unit 6: Inequalities in Geometry <u>Chapter 6:</u> Inequalities, Inverse, Contrapositive, Indirect Proof, Inequalities in One and Two Triangles	2 wks	Nov
Unit 7: Similar Polygons <u>Chapter 7:</u> Ratio and Proportion, Properties of Proportions, Similar Polygons, Postulates and Theorems for Similar Triangles, Proportional Lengths	2 wks	Nov/Dec
Unit 8: Right Triangles & Trigonometry <u>Chapter 8:</u> Similar Right Triangles, Pythagorean Theorem and its Converse, Special Right Triangles, Tangent, Cosine, Sine, Applications of Right Triangle Trigonometry	4 wks	Dec
Unit 9: Areas of Plane Figures <u>Chapter 11:</u> Areas of Rectangles, Parallelograms, Triangles, Rhombuses, Trapezoids, Regular Polygons and Circles; Ratio of Areas, Geometric Probability	3 wks	Jan
Unit 10: Areas and Volumes of Solids <u>Chapter 12:</u> Prisms, Pyramids, Cylinders, Cones, Spheres, Similar Solids	3 wks	Jan/Feb
Unit 11: Coordinate Geometry <u>Chapter 13:</u> Distance Formula, Slope of a Line, Parallel and Perpendicular Lines, The Midpoint Formula, Graphing and Writing Linear Equations	3 wks	Feb
Unit 12: Transformations / CSAPs <u>Chapter 14:</u> Mappings, Reflections, Translations, Glide Reflections, Rotations, Dilations	3 wks	Mar
Unit 13: Circles <u>Chapter 9:</u> Tangents, Arcs, Central Angles, Chords, Inscribed Angles, Other Angles, Lengths of Segments, Arc Lengths, Areas of Sectors	3 wks	Apr
Unit 14: Constructions <u>Chapter 10:</u> Construction, Perpendiculars, Parallels, Concurrent Lines, Circles, Special Segments, Locus	3 wks	May