Geometry Curriculum Map

Richard Dry

Week	Unit Name (Topic)	Lesson	Objectives	Standards and Eligible Content	Resources	Assessments	Adaptations Modifications	Vocab
1	Basic Terms- Definitions and Postulates	Points, Lines, Planes, Segments, Rays, and Distance	Students will... Identify objects Use postulates and find distance between given points	CC.1.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2 CC.2.1.HS.F.2 CC.2.1.HS.F.5	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Point Line Plane Space Collinear Coplanar Intersection Segment Ray Postulate Congruent Midpoint Bisector

2	Basic Terms- Definitions and Postulates	Angles Postulates/Theorems relating to Points, Lines, and Planes	Students will... Identify types of angles by appearance and measure Correctly read a protractor	CC.1.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2 CC.2.1.HS.F.2 CC.2.1.HS.F.5	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Vertex Theorem Adjacent

3	Using Deductive Reasoning	If-Then statements, Converse, Counter examples	Students will… Construct an If-Then statement, Disprove a statement using a counter-example, Write conditional statements, Write Bi-conditional statements	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Conditional Hypothesis Conclusion Converse Counter-example Biconditional
4	Using Deductive Reasoning	Properties of Equality Properties of Congruence Proving	Students will… Construct Two column proofs using given information	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects	Good copy of notes/ Guided notes Pictures/ images Advanced notice of	Reflexive Symmetric Transitive Distributive

		Theor-ems Two Column Proofs	, Use the Angle Bisector Theorem, Use the Midpoint Theorem			Homework Classwork Class Activities Binder Checks	quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	
5	Theorems about Angles and Perpendicular Lines	Special Pairs of Angles. Perpendicular Lines.	Students will… Use Complementary and supplementary angle pairs. Work with Perpendicular lines	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased	Complement-ary Supplement-ary Vertical Perpendicu-lar

							directions Cues for on-task behavior Individual SDIs	
6-7	Parallel Lines and Planes	Parallel lines, Perpendicular lines, skew lines, properties of parallel lines,	Students will… Distinguish between Parallel, Perpendicular, and skew lines. Identify the pairs of angles created by transversal. Prove lines parallel.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Skew lines Transversal Alternate Interior angles Same Side Interior Angles Correspond-ing Angles

8	Applying Parallel Lines to Polygons	Angles of a Triangle Angles of a Polygon Induc-tive Reason-ing	Students will… Distinguish between Parallel, Perpendicu lar, and skew lines. Identify the pairs of angles created by transversal. Prove lines parallel.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.5.3.HS.A.2 CC.6.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understand ing Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Scalene Isosceles Equilateral Equiangular Auxiliary Line Polygon Convex Concave Diagonal Inductive Reasoning
9-10	Congruent Figures	Corresp onding Parts. SSS SAS ASA CPCTC	Students will… Identify the correspond ing parts of congruent figures, Prove triangles congruent, Use CPCTC	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.12.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent	SSS SAS ASA CPCTC

			correctly			Classwork Class Activities Binder Checks	checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	
11	Isosceles Triangle Theorems	The Isos-celes Theor-em. AAS Theor-em. HL Theor-em	Students will… Distinguish between Parallel, Perpendicu lar, and skew lines. Identify the pairs of angles created by transversal. Prove lines parallel.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior	AAS HL

							Individual SDIs	
12	Isosceles Triangle Theorems	Median Altitude Perpen-dicular Bisect-or	Students will… Solve problems and complete proofs using Medians, Altitudes, and perpendicu lar bisectors.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understand ing Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Median Altitude Perpendicu-lar Bisector

13	Properties of Parallelo-grams	Proving quads to be Parallel ograms	Students will… Solve problems and complete proofs using Properties of Parallelo-grams.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understand ing Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Parallelo-gram
14	Theorems involving Parallel Lines	Using Paralleli nes in Proofs	Students will… Solve problems and complete proofs using Parallel	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/	N/A

			Lines.			Homework Classwork Class Activities Binder Checks	tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	
15	Special Quadrilaterals	Types of Parallelograms	Students will… Apply definitions and identify properties of rectangle, rhombus, square, and trapezoid. Determine when a parallelogram is a rectangle, rhombus, or square	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for	Rectangle Rhombus Square Trapezoid

							on-task behavior Individual SDIs	
16-18	Similar Polygons	Ratio and proportion. Properties of Proportions. Similar Polygons. Similarity Postulates	Students will… Simplify ratios. Solve proportions Find Scale Factors. Find missing lengths and angles in similar figures. Use the AA, SAS, SSS Similarity Postulates.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Ratio Proportion Similar

19	Theorems for Similarity	SAS and SSS Similar-ity	Students will… Prove triangles Similar by SSS and SAS.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.5.3.HS.A.2 CC.6.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	N/A
20	Proportional Lengths	Theor-ems for proporti onality	Students will… Find missing lengths of	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.5.3.HS.A.2 CC.6.3.HS.A.2	Internet Textbook Netbooks	Informal observation Quizzes	Good copy of notes/ Guided notes	N/A

			triangles.	CC.13.3.HS.A.2 CC.14.3.HS.A.2	PowerPoint Calculators	Tests Projects Homework Classwork Class Activities Binder Checks	Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	
21-23	Right Triangles	Similar Right Triangle Pythag-orean Theor-em, Con-verse of Pythag-	Students will… Find Geometric Mean, Find Altitudes, Find missing lengths of triangle,	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.5.3.HS.A.2 CC.6.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/	Geometric Mean Radical Pythagorean Theorem Pythagorean Triple

		orean Theor-em, 45-45-90 Triangle 30-60-90 Triangle	Identify type of triangle based on side lengths, know and correctly use the 45-45-90 and 30-60-90 triangle			Homework Classwork Class Activities Binder Checks	tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	
24-25	Trigonometry	Tangent ratio, Sine Ratio, Cosine Ratio,	Students will… Find missing angles and sides of right triangles using Tangent, Sine, and Cosine.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.7.3.HS.A.2 CC.8.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2 CC.2.2.HS.C.7 CC.2.2.HS.C.8 CC .2.2.HS.C.9	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding	Trigonometry Tangent Sine Cosine Angle of Depression Angle of Elevation

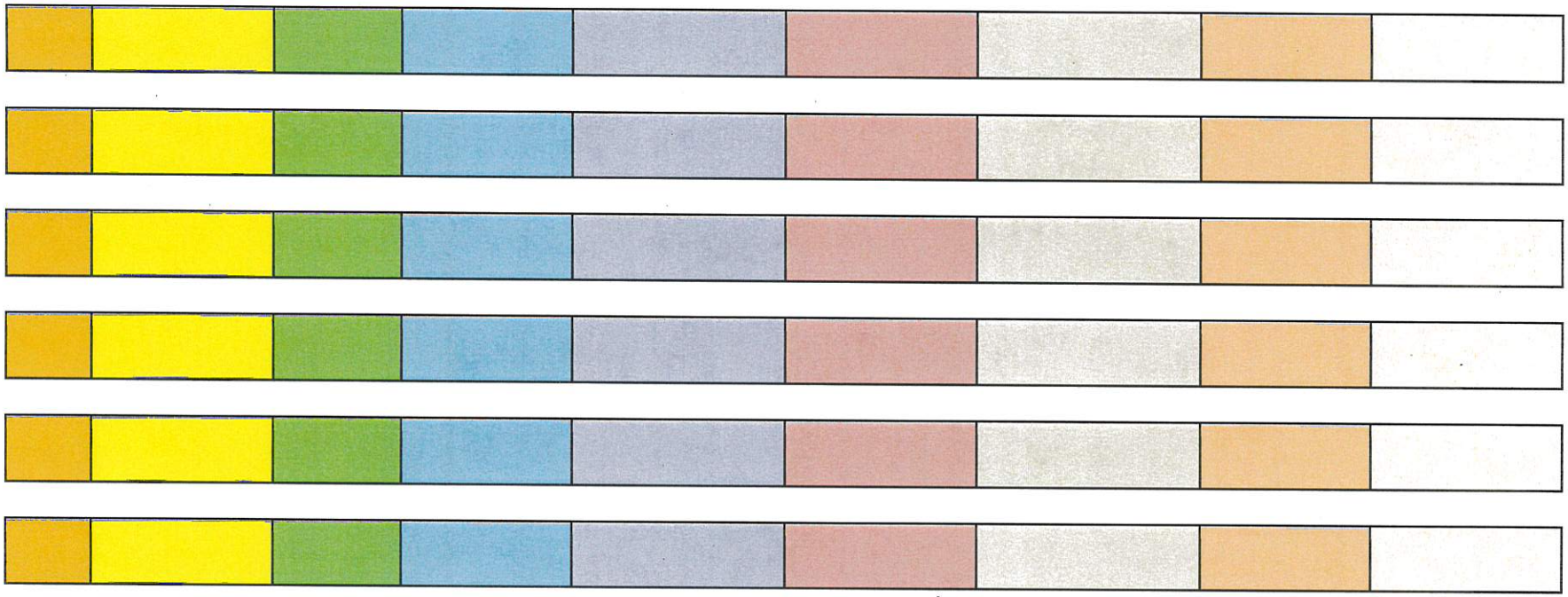
						Class Activities Binder Checks	Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	
26-27	Circles	Basic terms, Tangent, Arcs and chords	Students will… Define a circle and its terms relating to them.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.8.3.HS.A.2 CC.9.3.HS.A.2 CC.11.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task	Circle Center Radius Diameter Point of Tangency Sphere Concentric Circle Inscribed polygon Central angle Arc Semicircle

							behavior Individual SDIs	
28-29	Angles and segments in circles	Inscribed angles, segment relation ships	Students will… Solve problems and complete proofs using inscribed angles. Solve problems and complete proofs involving chords, secant segments, and tangent segments.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.8.3.HS.A.2 CC.9.3.HS.A.2 CC.10.3.HS.A.2 CC.11.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	N/A

30 - 32	Area of Polygons	Area of Rectan-gles, triangle, parallel ograms, rhom-buses, trape-zoids	Students will… Find the area of rectangles, parallelogr ams, triangles, trapezoids, and regular polygons.	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.5.3.HS.A.2 CC.6.3.HS.A.2 CC.11.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects Homework Classwork Class Activities Binder Checks	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understand ing Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	Complex figures Apothem
33	Circles	Area and circumf erence of	Students will… Find Area and Circumfere	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.8.3.HS.A.2 CC.9.3.HS.A.2	Internet Textbook Netbooks	Informal observation Quizzes	Good copy of notes/ Guided notes	Circumfer-ence Sector

		circles	nce of circles, Find Arc length and area of sectors.	CC.10.3.HS.A.2 CC.11.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2	PowerPoint Calculators	Tests Projects Homework Classwork Class Activities Binder Checks	Pictures/ images Advanced notice of quizzes/ tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	
34-36	Solids	Prisms, Pyramids, Cylinders, Cones, spheres	Students will… Identify the parts of Prisms, Pyramids, Cylinders, and Cones. Find the lateral area,	CC.1.3.HS.A.2 CC.2.3.HS.A.2 CC.3.3.HS.A.2 CC.4.3.HS.A.2 CC.5.3.HS.A.2 CC.6.3.HS.A.2 CC.8.3.HS.A.2 CC.9.3.HS.A.2 CC.10.3.HS.A.2 CC.11.3.HS.A.2	Internet Textbook Netbooks PowerPoint Calculators	Informal observation Quizzes Tests Projects	Good copy of notes/ Guided notes Pictures/ images Advanced notice of quizzes/	Prism Edge Lateral Face Pyramid Cylinder Cone

			total area, and volume of prisms, pyramids, right cylinders, and right cones	CC.12.3.HS.A.2 CC.13.3.HS.A.2 CC.14.3.HS.A.2		Homework Classwork Class Activities Binder Checks	tests Frequent checks for understanding Repeated/ rephrased directions Cues for on-task behavior Individual SDIs	



*Big Idea page will be added