GEOMETRY 2022-23

MASTERY TARGET	Learning Target (Objectives)	Standard	Pacing (days)
MT 1 Points, Planes, Lines	● Name specific terms (line, ray, etc) ● Illustrate a diagram given terms ● Know definition of terms	G.PL.1	1-2
MT 2 Angles	● Sketch angles (right, obtuse, etc) ● Identify and Name Angles ● Classifying Angles (adjacent, linear, supplementary, complementary, vertical)	G.PL.1	2-3
MT 3 Addition Postulates	● Angle Addition ● Segment Addition ● Angle Bisector ● Solving with Linear Pair/Vertical	G.PL.1	2-3
	TEST (10 days)		
MT 4 Distance Formula	● Distance between 2 points given ordered pairs, on a coordinate plane ● Apply to real world with a given scale ● Perimeter of a 2D on coordinate plane ● Derive from Pythag Thrm	G.PL.4	2
MT 5 Midpoint Formula	● Midpoint between 2 points as ordered pairs, on a coordinate plane ● Find endpoint when given midpoint and 1 endpoint ● Apply to real world when given a scenario	G.PL.4	2
	TEST (6 days)		
MT 6 Parallel, Perpendicular or Neither	● Identify/Calculate slopes of lines ● Given 2 equations or given 2 slopes or 1 of each to determine parallel, perpendicular, neither ● Be able to put into slope intercept form from standard form and 2 points	G.PL.2	2-3
	TEST (3 days)		
MT 7 Transversal Relationships	● Identify and name angle relationships from a transversal diagram including: corresponding, alternate interior, alternate exterior, consecutive interior, and consecutive exterior angles	G.PL.1	2
MT 8 Transversal Measures	● Solve for angle measures of a transversal diagram given one angle ● Solve algebraic equations using the transversal relationships between angles	G.PL.1	3

	TEST (6 days total)		
MT 9 Conditional Statements	● Given a conditional statement, identify the hypothesis and conclusion ● Determine if a conditional statement is true or false ● Provide counterexamples to show conditional statement is false ● Write conditional statements from declarative statements ● Write a converse, inverse, contrapositive statement using a given conditional statement ● Determine if a bi-conditional statement can be written and write one if possible	G.LP.3	3
MT 10 Geometric Proofs	● Prove geometric relationships including but not limited to: segment addition, angle addition, midpoint, transversal relationships, complementary and supplementary angles		3
	TEST (7 days total)		
MT 11 Angles of Triangles	● Use the triangle sum theorem to solve for missing angles and problems involving algebraic expressions ● Use the exterior angle theorem to solve for missing angles and problems involving algebraic expressions		
MT 12 Isosceles and Equilateral Triangles	● Know and apply the Isosceles Triangle Theorem and its converse ●		
MT 13 Triangle Congruence	● Understand what it means for two triangles to be congruent ● Name and identify the Triangle Congruence Postulates and Theorems (SSS,SAS,ASA,AAS, and HL) ● Name and identify corresponding parts of two congruent triangles (sides and angles) ● Solve algebraically using corresponding congruent parts		
MT 14 Triangle Proofs	● Prove two triangles are congruent using 2-column format ● Prove corresponding parts of congruent triangles are congruent (CPCTC)		
MT 15 Similar Triangles/ Angle Bisector	● Determine if two triangles are similar by identifying the postulates AA~, SAS~, and SSS~ ● Solve for lengths of sides of triangles using similarity ● Solve real world problems involving similar triangles ● Use the Angle Bisector Theorem to solve problems		

MT 16 Parallel Lines & Proportional Parts	● Set up and solve proportions involving sides of triangles ● Understand and apply that a line parallel to a side of a triangle divides the intersected sides proportionally ● Understand and apply that if the parts of the sides of the triangles are cut proportionally, then the lines are parallel		
MT 17 Triangle Inequalities/ Hinge Theorem	●		