Mt. Zion High School Curriculum Map

Name: ______ Diehl _____ Department: ____ Math ____ Subject: ___ Geometry ______

Quarter	Essential Skills	Strategies and Activities	CC Standards	Assessments
1	 Students will utilize basic tools of geometry in order to develop an awareness of structure of a 	1a. identify and model points, lines, and planes, intersecting lines and planes	1a.G.CO.1	Chapter 1 quiz, test, semester exam
	mathematical system involving definitions, postulates, logical	1b. measure segments and perform calculations with measures	1b.G.CO.1, G.CO.12	
	reasoning, and theorems.	1c. find the distance between 2 points and	1c.G.CO.1,	
		the midpoint of a segment	G.CO.12	
		1d. measure and classify angles and identify congruent angles and angle bisectors	1d.G.CO.1, G.CO.12	
		1e. identify and use special pairs of angles and identify perpendicular lines	1e.G.CO.12	
		1f. identify and name polygons and find perimeter, circumference and area of 2-dimensional polygons	1f. G.GPE.7	
		1g. identify and name 3-dimensional figures and find surface area and volume	1g.G.GMD.3	

Quarter	Essential Skills	Strategies and Activities	CC Standards	Assessments
1.	 Students will use inductive, deductive, and logical reasoning to formulate conjectures, prove statements are true, and 	2a. identify and use basic postulates about points, lines, and planes in order to write paragraph proofs.	2a.G.MG.3	Chapter 2 quiz, chapter 2 test, semester exam
	counterexamples to disprove statements that are false leading into the development of proofs.	2b. develop proofs involving segment addition	2b.G.CO.9, G.CO.12	
	1	2c. develop proofs involving congruence	2c.G.CO.9,G.CO.12	
		2d. write proofs involving supplementary/complementary angles, and congruent/right angles.	2d.G.CO.9	
1.	 Students will make conjectures about lines and angles and determine the validity; investigate 	3a. identify the relationship between lines and planes and name angles formed by parallel lines.	3a.G.CO.1	Chapter 3 quiz, chapter 3 test, semester exam
	geometric relationships using slopes;	3b. use theorems to determine the relationships between specific pairs of angles and use algebra to find angle measurements	3b.G.CO.1, G.CO.9	
		3c. find slopes of lines and use slope to identify parallel and perpendicular lines.	3c.G.GPE.5	
		3d. write equations of lines given information about the graph and solve problems by writing equations	3d.G.GPE.5	

Mt. Zion High School Curriculum Map

Name: _____ Department: ____ Subject:

Name	Department.	Subject	1	
Quarter	Essential Skills	Strategies and Activities	CC Standards	Assessments
1.	3 cont	3e. Recognize angles pairs in parallel lines; prove 2 lines are parallel3f. Find the distance between a point and a line and between 2 parallel lines	3e.G.CO.0, G.CO.12 3f.G.CO.12, G.MG.3	
2.	4. Students will make conjectures about polygons and use numeric/geometric patterns to generalize about geometric properties	4a. identify and classify triangles by angle measures and side measures4b. apply the triangle sum theorem and exterior angle theorem	4a. G.CO.12 4b. G.CO.10	Chapter 4 quiz, chapter 4 test, semester exam
		4c. name and use corresponding parts of congruent polygons and prove triangles are congruent using the definition of congruent	4c.G.CO.7, G.SRT.5	
		4d. use SSS and SAS to prove triangles are congruent	4d.G.CO.10, G.SRT.5	
		4e. use ASA and AAS to prove triangles are congruent	4e.G.CO.10, G.SRT.5	
		4f. use properties of isosceles and equilateral triangles	4f. G.CO.10, G.CO.12	
		4g. identify reflections, rotations and translations	4g.G.CO.6, G.CO.7	
		4h. position and label triangles for use in coordinate proofs	4h.G.CO.12,G.GPE.4	

Quarter	Essential Skills	Strategies and Activities	CC Standards	Assessments
2	 Students will use slop and equations of lines to investigate geometric relationships and 	5a. identify and use perpendicular and angle bisectors in triangles	5a. G.CO.10, G.MG.3	Chapter 5 quiz, chapter 5 test, semester exam
	analyze geometric relationships in order to verify conjectures	5b. identify and use medians and altitudes in triangles	5b. G.CO.10, G.MG.3	
		5c. recognize and apply properties of inequalities to the measures of the angles and sides of a triangle	5c. G.CO.10	
		5d. write indirect algebraic and geometric proofs	5d. G.CO.10	
		5e. use the Triangle Inequality Theorem to identify possible triangles	5e. G.CO.10, G.MG.3	
		5f. apply the Hinge Theorem/converse to compare 2 triangles	5f. G.CO.10	
2	 Students will use numeric and geometric patterns to make generalizations about geometric 	6a. find and use the sum of the measures of interior and exterior angles of a polygon	6a.G.MG.1	Chapter 6 quiz, chapter 6 test, semester exam
	properties (polygons); formulate	6b. recognize and apply the properties of	6b. G.CO.11,	
	and test conjectures about those properties; derive and use	sides, angles, and diagonals of parallelogram	G.GPE.4	
	formulas involving length, slope,	6c. recognize the conditions that ensure a	6c.G.CO.11,	
	midpoint	quadrilateral is a parallelogram and prove	G.GPE.4	
		6d. recognize and apply properties of rectangles and determine whether parallelograms are rectangles	6d.G.CO.11,G.GPE.4	
		6e. recognize and apply properties of rhombi and squares and determine whether quadrilaterals are rectangles, rhombi, or squares	6e.G.CO.11,G.GPE.4	

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Name:______Department:____Subject:____

Quarter	Essential Skills	Strategies and Activities	CC Standards	Assessments
	6cont	6f. recognize and apply the properties of	6f.G.GPE.4,	
2		trapezoids and kites	G.MG.3	