## **Mathematics Three-week Curriculum Template**

Course or Grade Level: GEOMETRY			Calendar (Weeks 7, 8 and 9) Bundle 3			
	TAKS OBJ	TEKS Knowledge & S		EKS Expectation	Specification/Examples	
Content	6 & 7		G.4 (A) The studen an appropriate repre pictorial, graphical, in order to solve pro (Supporting Standa	verbal, or symbolic) blems	<ul> <li>Interpreting real-world geometric situations in terms of graphs, tables, and literal equations</li> <li>Describing real-world geometric situations that fit appropriate representations</li> </ul>	
			conjectures about an	ransformational, or	<ul><li>Reflections</li><li>Translations</li><li>Rotations</li></ul>	
			G.5 (A) The studen numeric and geomet develop algebraic expresenting geomet including functional writing equations or pertain to:  (Readiness standar)	ric patterns to appressions ric properties relationships in inequalities as they	<ul> <li>Areas of circles and polygons</li> <li>Perimeters of polygons and circumferences of circles</li> <li>Finding the sum of the interior angles of polygons</li> <li>Deriving volume formulas</li> <li>Discovering the area formulas for a regular polygon</li> <li>Discovering the relationship among the sides of 45-45-90 and 30-60-90 triangles</li> </ul>	
			G.5 (B) The student numeric and geomet generalizations about properties, including (Supporting Standa	ric patterns to make at geometric	<ul> <li>Properties of polygons</li> <li>Ratios in similar figures and solids</li> <li>Angle relationships in polygons and circles</li> </ul>	

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			G.7 (B) The student is expected to use slopes and equations of lines to investigate geometric relationships including:  (Supporting Standard)	<ul> <li>Parallel lines</li> <li>Perpendicular lines</li> <li>Special segments of triangles and other polygons.</li> <li>Apothem</li> <li>Radius</li> </ul>
	PAY C	my v c	G.9 (B) The student is expected to formulate and test conjectures about the properties and attributes of polygons and their component parts based on explorations and concrete models (Supporting Standard)	<ul> <li>Recognizing polygons (triangles to decagons)</li> <li>Properties of regular polygons</li> <li>Properties of quadrilaterals, triangles, and special polygons (e.g. hexagons)</li> </ul>
	TAKS OBJ	TEKS Knowledge & Skills	TEKS Student Expectation	Specification/Examples
Process	10	(8.14) Underlying processes and mathematical tools. The student applies Grade 8 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school.	The student is expected to:  (A) identify and apply mathematics to everyday experiences and with other mathematical topics  (B) use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;  (C) select or develop an appropriate problem-solving strategy from a variety of different types, including drawing a picture, looking for a pattern, making a table,	
		(8.15) Underlying processes and mathematical tools. The student communicates about Grade 8 mathematics through informal and mathematical language, representations, and models.	(D) select tools such as real objects, manipulatives, paper/pencil, and technology  (A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models	

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	(8.16) Underlying processes and mathematical tools. The student uses logical reasoning to make conjectures and verify conclusions		<ul> <li>(B) evaluate the effectiveness of different representations to communicate ideas</li> <li>(A) make conjectures from patterns or sets of examples and nonexamples;</li> <li>(B) validate his/her conclusions using mathematical properties and relationships.</li> </ul>			
Language of Instruction	Technology TEKS/Product		Primary Resource Reference		Secondary Resource Reference	
			Unit 5, 6 and 7		·	
<b>Student Performance</b>	Formative				Summative	
<ul> <li>Assessments</li> <li>Textbook assessment</li> <li>Common assessment</li> <li>Benchmark</li> <li>TAKS</li> <li>Advanced Placement</li> <li>Lab</li> <li>Project</li> <li>Essay</li> <li>Short answer response</li> <li>Applying mathematics</li> </ul>		Quiz 5-2 (5-3 & 5-4 included) Quiz 6-1 (6-1 & 6-2 included) Quiz 6-2 (6-3 & 6-4 included) Quiz 7-1 (7-1 & 7-2 included)		Test#5 Test#6		
Intervention  Outline specific interventions for different learning needs:  Reteach options for non-mastery  Scaffolds for ELLs  Differentiation for struggling learners Identify specific resources and teaching tools/ideas for intervention (grouping, pacing). Introduction-level standards include tier 2 interventions. Interventions for tested include both tier 2 and 3 focused small group interventions. Interventions for reviewed standards include more tier 3 focused small groups and individualized intervention.						
Other Curricular Connection (ELA, Math, SS)	The TEKS social studies strand for science and technology should be the first source to connect math concepts with the history of mathematics and contributions of mathematicians.					

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