

Geometry

Texas Essential Knowledge and Skills (TEKS) Overview

This document provides an overview of the TEKS coverage in the Texas Math Solution for Geometry.

Module	Topic	L#	Lesson Title	Lesson Subtitle	G.2A	G.2B	G.2C	G.3A	
Module 1: Reasoning with Shapes	Topic 1: Using a Rectangular Coordinate System	1	The Squariest Square	From Informal to Formal Geometric Thinking					
		2	Hip to Be Square	Constructing a Coordinate Plane					
		3	Ts and Train Tracks	Parallel and Perpendicular Lines			●		
		4	Where Has Polly Gone?	Classifying Shapes on the Coordinate Plane		●			
		5	In and Out and All About	Area and Perimeter on the Coordinate Plane		○	○		
	Topic 2: Rigid Motions on a Plane	1	Put Your Input In, Take Your Output Out	Geometric Components of Rigid Motions					
		2	Bow Thai	Translations as Functions					
		3	Staring Back at Me	Reflections as Functions					
		4	Turn Yourself Around	Rotations as Functions					
		5	Slide, Flip, Turn: The Latest Dance Craze?	Translations, Rotations, and Reflections on the Coordinate Plane				●	
		6	OKEECHOBEE	Reflectional and Rotational Symmetry					
	Topic 3: Congruence Through Transformations	1	Elemental	Formal Reasoning in Euclidean Geometry					
		2	ASA, SAS, and SSS	Proving Triangle Congruence Theorems					
		3	I Never Forget a Face	Using Triangle Congruence to Solve Problems		○			
	Module 2: Establishing Congruence	Topic 1: Composing and Decomposing Shapes	1	Running Circles Around Geometry	Using Circles to Make Conjectures				
2			The Quad Squad	Conjectures About Quadrilaterals					
3			Into the Ring	Constructing an Inscribed Regular Polygon					
4			Tri- Tri- Tri- and Separate Them	Conjectures About Triangles					
5			What's the Point?	Points of Concurrency					
Topic 2: Justifying Line and Angle Relationships		1	Proof Positive	Forms of Proof					
		2	A Parallel Universe	Proving Parallel Line Theorems					
		3	Ins and Outs	Interior and Exterior Angles of Polygons					
		4	Identical Twins	Perpendicular Bisector and Isosceles Triangle Theorems					
		5	Corners in a Round Room	Angle Relationships Inside and Outside Circles					
Topic 3: Using Congruence Theorems		1	SSS, SAS, AAS... S.O.S.!	Using Triangle Congruence to Determine Relationships Between Segments					
		2	Props To You	Properties of Quadrilaterals					
		3	Three-Chord Song	Relationships Between Chords					
Module 3: Investigating Proportionality		Topic 1: Similarity	1	Big Little, Big Little	Dilating Figures to Create Similar Figures				○
			2	Similar Triangles or Not?	Establishing Triangle Similarity Criteria				
	3		Keep It in Proportion	Theorems About Proportionality		○			
	4		This Isn't Your Average Mean	More Similar Triangles					
	5		Run It Up the Flagpole	Application of Similar Triangles					
	6		Jack's Spare Key	Partitioning Segments in Given Ratios	●				
	Topic 2: Trigonometry	1	Three Angle Measure	Introduction to Trigonometry					
		2	Going on a Tangent	Tangent Ratio and Inverse Tangent					
		3	Show Me a Sine	Sine Ratio and Inverse Sine					
		4	Can I Get a Cosine?	Cosine Ratio and Inverse Cosine					
		5	Fishing for Complements	Complement Angle Relationships					
Module 4: Connecting Geometric and Algebraic Descriptions	Topic 1: Circles and Volume	1	All Circles Great and Small	Similarity Relationships in Circles					
		2	A Piece of Pi	Sectors and Segments of a Circle					
		3	Do Me a Solid	Building Three-Dimensional Figures					
		4	Get to the Point	Building Volume and Surface Area Formulas for Pyramids, Cones, and Spheres					
	Topic 2: Conic Sections	1	Give Me a Slice	Cross-Sections					
		2	X^2 Plus Y^2 Equals Radius ²	Deriving the Equation for a Circle					
		3	A Blip on the Radar	Determining Points on a Circle		○			
Module 5: Making Informed Decisions	Topic 1: Independence and Conditional Probability	1	What Are the Chances?	Compound Sample Spaces					
		2	And?	Compound Probability with <i>And</i>					
		3	Or?	Compound Probability with <i>Or</i>					
		4	And, Or, and More!	Calculating Compound Probability					
		1	Table Talk	Compound Probability for Data Displayed in Two-Way Tables					
	Topic 2: Computing Probabilities	2	It All Depends	Conditional Probability					
		3	Give Me 5!	Permutations and Combinations					
		4	A Different Kind of Court Trial	Independent Trials					
		5	What Do You Expect?	Expected Value					
		End of Course	Formative Assessment	1	Shape Up!	Performance Task		○	
2	Map My Route			Performance Task		○			
3	It's a Bird! It's a Plane! It's...a Drone?			Performance Task					

Geometry TEKS Summary by Module and Topic	G.2A	G.2B	G.2C	G.3A	G.3B	G.3C	G.3D	G.4A	G.4B	G.4C	G.4D	G.5A	G.5B	G.5C	G.5D	G.6A	G.6B
Module 1 TEKS Summary		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•
M1 Topic 1 TEKS Summary		•	•			•		•				•	•	•			
M1 Topic 2 TEKS Summary				•	•	•	•						•			•	
M1 Topic 3 TEKS Summary		•						•	•	•	•						•
	G.2A	G.2B	G.2C	G.3A	G.3B	G.3C	G.3D	G.4A	G.4B	G.4C	G.4D	G.5A	G.5B	G.5C	G.5D	G.6A	G.6B
Module 2 TEKS Summary					•			•	•			•	•	•	•	•	•
M2 Topic 1 TEKS Summary								•	•			•	•	•	•		
M2 Topic 2 TEKS Summary					•			•	•			•	•			•	•
M2 Topic 3 TEKS Summary													•	•			•
	G.2A	G.2B	G.2C	G.3A	G.3B	G.3C	G.3D	G.4A	G.4B	G.4C	G.4D	G.5A	G.5B	G.5C	G.5D	G.6A	G.6B
Module 3 TEKS Summary	•	•		•						•			•	•			
M3 Topic 1 TEKS Summary	•	•		•						•			•	•			
M3 Topic 2 TEKS Summary																	
	G.2A	G.2B	G.2C	G.3A	G.3B	G.3C	G.3D	G.4A	G.4B	G.4C	G.4D	G.5A	G.5B	G.5C	G.5D	G.6A	G.6B
Module 4 TEKS Summary		•															
M4 Topic 1 TEKS Summary																	
M4 Topic 2 TEKS Summary		•															
	G.2A	G.2B	G.2C	G.3A	G.3B	G.3C	G.3D	G.4A	G.4B	G.4C	G.4D	G.5A	G.5B	G.5C	G.5D	G.6A	G.6B
Module 5 TEKS Summary																	
M5 Topic 1 TEKS Summary																	
M5 Topic 2 TEKS Summary																	
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End of Course: Formative Assessment		•															•

Geometry TEKS Summary by Module	G.2A	G.2B	G.2C	G.3A	G.3B	G.3C	G.3D	G.4A	G.4B	G.4C	G.4D	G.5A	G.5B	G.5C	G.5D	G.6A	G.6B
Module 1 TEKS Summary		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•
Module 2 TEKS Summary					•			•	•			•	•	•	•	•	•
Module 3 TEKS Summary	•	•		•						•			•	•			
Module 4 TEKS Summary		•															
Module 5 TEKS Summary																	
End of Course: Formative Assessment		•															•

