

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 1: Reasoning with Shapes				
Topic 1: Using a Rectangular Coordinate System				
1	The Squariest Square	From Informal to Formal Geometric Thinking	G.4A G.5A	2
2	Hip to Be Square	Constructing a Coordinate Plane	G.3C G.5B G.5C	2
MATHia				1
3	Ts and Train Tracks	Parallel and Perpendicular Lines	G.2C G.5A G.5B	2
4	Where Has Polly Gone?	Classifying Shapes on the Coordinate Plane	G.2B	2
MATHia				1
5	In and Out and All About	Area and Perimeter on the Coordinate Plane	G.2B G.2C G.3C G.10B G.11B G.11A	4
MATHia				1
End of Topic Assessment				1

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Topic 2: Rigid Motions on a Plane				
1	Put Your Input In, Take Your Output Out	Geometric Components of Rigid Motions	G.3B G.3C	2
2	Bow Thai	Translations as Functions	G.3B G.3C G.6C G.3A	2
Mid Topic Assessment				1
3	Staring Back at Me	Reflections as Functions	G.3B G.3C G.5B G.6A G.6C	2
MATHia				1
4	Turn Yourself Around	Rotations as Functions	G.3B G.3C G.6C	3
MATHia				1
5	OKEECHOBEE	Reflectional and Rotational Symmetry	G.3D	2
MATHia				1
End of Topic Assessment				1
Topic 3: Congruence Through Transformations				
1	The Elements	Formal Reasoning in Euclidean Geometry	G.4A G.4B G.4C G.4D	2
MATHia				1
2	ASA, SAS, and SSS	Proving Triangle Congruence Theorems	G.6B G.6C	2
MATHia				1
3	I Never Forget a Face	Using Triangle Congruence to Solve Problems	G.2B G.6B G.6C	2
End of Topic Assessment				1

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 2: Establishing Congruence				
Topic 1: Composing and Decomposing Shapes				
1	Running Circles Around Geometry	Using Circles to Make Conjectures	G.4A G.5A G.5B G.5C G.12A	2
MATHia				1
2	The Quad Squad	Conjectures About Quadrilaterals	G.5A G.5B G.5C G.6E	2
MATHia				1
3	Into the Ring	Constructing an Inscribed Regular Polygon	G.5B G.5C	3
MATHia				1
4	Tri- Tri- Tri- and Separate Them	Conjectures About Triangles	G.4A G.4B G.5A G.5D	2
MATHia				1
5	What's the Point?	Points of Concurrency	G.5B G.5C	2
MATHia				1
End of Topic Assessment				1
Topic 2: Justifying Line and Angle Relationships				
1	Proof Positive	Forms of Proof	G.4A G.5B G.6A	3
MATHia				1
2	A Parallel Universe	Proving Parallel Line Theorems	G.3B G.4A G.4B G.6A	2

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Mid Topic Assessment				1
3	Ins and Outs	Interior and Exterior Angles of Polygons	G.5A G.6D	2
MATHia				1
4	Identical Twins	Perpendicular Bisector and Isosceles Triangle Theorems	G.4B G.6A G.6D G.9B	2
MATHia				1
5	Corners in a Round Room	Angle Relationships Inside and Outside Circles	G.4B G.5A G.12A	2
End of Topic Assessment				1
Topic 3: Using Congruence Theorems				
1	SSS, SAS, AAS... S.O.S.!	Using Triangle Congruence to Determine Relationships Between Segments	G.6B G.6C G.12A	2
MATHia				1
2	Props To You	Properties of Quadrilaterals	G.6E	2
MATHia				1
3	Three-Chord Song	Relationships Between Chords	G.5B G.5C G.12A	1
End of Topic Assessment				1

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 3: Investigating Proportionality				
Topic 1: Similarity				
1	Big Little, Big Little	Dilating Figures to Create Similar Figures	G.4C G.7A	1
MATHia				1
2	Similar Triangles or Not?	Establishing Triangle Similarity Criteria	G.7A G.7B	2
MATHia				1
3	Keep It in Proportion	Theorems About Proportionality	G.2B G.5B G.5C G.6D G.8A	4
Mid Topic Assessment				1
4	This Isn't Your Average Mean	More Similar Triangles	G.6D G.7B G.8B	1
MATHia				1
5	Run It Up the Flagpole	Application of Similar Triangles	G.7B	2
MATHia				1
6	Jack's Spare Key	Partitioning Segments in Given Ratios	G.2A G.5B G.8A	2
End of Topic Assessment				1



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*1 Day Pacing = 45 min. Session

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Topic 2: Trigonometry				
1	Three Angle Measure	Introduction to Trigonometry	G.9A G.9B	1
MATHia				1
2	The Tangent Ratio	Tangent Ratio, Cotangent Ratio, and Inverse Tangent	G.9A	2
MATHia				1
3	The Sine Ratio	Sine Ratio, Cosecant Ratio, and Inverse Sine	G.9A	1
MATHia				1
Mid Topic Assessment				1
4	The Cosine Ratio	Cosine Ratio, Secant Ratio, and Inverse Cosine	G.9A	1
MATHia				1
5	We Complement Each Other	Complement Angle Relationships	G.9A G.9B	2
MATHia				1
End of Topic Assessment				1

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 4: Connecting Geometric and Algebraic Descriptions				
Topic 1: Circles and Volume				
1	All Circles Great and Small	Similarity Relationships in Circles	G.12B G.12D	2
MATHia				1
2	A Slice of Pi	Sectors and Segments of a Circle	G.12C G.11B	1
MATHia				1
Mid Topic Assessment				1
3	Do Me a Solid	Building Three-Dimensional Figures	G.10A G.11D	2
MATHia				1
4	Get to the Point	Building Volume and Surface Area Formulas for Pyramids, Cones, and Spheres	G.10B G.11C G.11D	3
MATHia				1
End of Topic Assessment				1
Topic 2: Conic Sections				
1	Any Way You Slice It	Cross-Sections	G.10A	2
MATHia				1
2	X^2 Plus Y^2 Equals Radius ²	Deriving the Equation for a Circle	G.12.E	2
MATHia				1
3	A Blip on the Radar	Determining Points on a Circle	G.2B G.12E	1
MATHia				1
End of Topic Assessment				1

Lesson #	Lesson Title	Lesson Subtitle	TEKS	Pacing*
Module 5: Making Informed Decisions				
Topic 1: Independence and Conditional Probability				
1	What Are the Chances?	Compound Sample Spaces	G.13C	2
2	And?	Compound Probability with And	G.13C	1
MATHia				1
Mid Topic Assessment				1
3	Or?	Compound Probability with Or	G.13C	1
MATHia				1
4	And, Or, and More!	Calculating Compound Probability	G.13C	1
MATHia				1
End of Topic Assessment				1
Topic 2: Computing Probabilities				
1	Table Talk	Compound Probability for Data Displayed in Two-Way Tables	G.13C G.13E	2
2	It All Depends	Conditional Probability	G.13C G.13D G.13E	1
MATHia				1
3	Give Me 5!	Permutations and Combinations	G.13A	2
Mid Topic Assessment				1
4	A Different Kind of Court Trial	Independent Trials	G.13A	1
MATHia				1
5	What Do You Expect?	Expected Value	G.13B	2
MATHia				1
End of Topic Assessment				1