

Additional Resources by Standards Principles of Algebra and Geometry

Code Key	
NLVM: National Library of Virtual Manipulatives	IM: Illustrative Mathematics Website
INSM: Inside Mathematics	SHM: shmoop
NCTM: National Council of Teachers of Mathematics	CPS: Cpalms.org link to math standards and resources
PM: Purplemath.com	VN: Virtual Nerd - Algebra
ST: Stat Trek	PA: Pearson Algebra 1
LZ: Learn Zillion	PAT: Pearson Algebra 2/ Trig
DM: Dan Meyer's work	UT: Utah Board of Education
MAP: Mathematics Assessment Project	BLC: Better Lesson.com
IXL: NYS Math Standards	NCTM: National Council of Teachers of Mathematics
ALE: Alabama Learning Exchange	

Standards	Engage NY Module(s)	Resources <i>for Differentiation, Reinforcement, Homework, etc.</i>	
7.G.1		IM: Floor Plan IM: Circumference of a Circle IM: Map Distance	INSM: Cubism INSM: What's Your Angle? INSM: Which is Bigger?
7.G.3		LZ: 7.G.2 Video Connected Math 2: Grade 7: FW Video Tutor	IM: Cube Ninjas INSM: Piece It Together
7.G.4		LZ: 7.G.2 Video IM: Eight Circles IM: Designs IM: Approximating the Area of a Circle DM: Penny Circle INSM: Surrounded and Covered INSM: Pizza Crusts	Connected Math 2: Grade 7: FW Video Tutor IM: Measuring the Area of a Circle IM: Stained Glass IM: Circumference of a Circle INSM: Circular Reasoning INSM: Poly Gone INSM: Which is Bigger?

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8.G.1a,b,c		INSM: Cutting a Cube	INSM: Cut It Out
8.G.2		IM: Circle Sandwich IM: Congruent Segments IM: Cutting a Rectangle into Two Congruent Triangles INSM: Between the Lines	IM: Congruent Rectangles IM: Congruent Triangles IM: Triangle Congruence with Coordinates INSM: Miles of Tiles
8.G.3		IM: Reflecting a Rectangle Over a Diagonal IM: Triangle Congruence with Coordinates IM: Reflecting Reflections	IM: Effects of Dilations on Length, Area, and Angles INSM: The Shapes of Things INSM: Aaron's Designs
8.G.4		IM: Different Areas? IM: Are They Similar? IM: Creating Similar Triangles	INSM: Miles of Tiles INSM: Surrounded and Covered INSM: What's Your Angle
8.G.5		IM: Street Intersections IM: Triangle's Interior Angles IM: Congruence of Alternate Interior Angles via Rotations IM: Find the Angle	IM: Find the Missing Angle IM: Rigid Motions and Congruent Angles IM: Tile Patterns I: Octagons and Squares IM: Tile Patterns II: Hexagons
8.G.7		IM: Running on the Football Field IM: Area of a Trapezoid IM: Areas of Geometric Shapes with the Same Perimeter IM: Circle Sandwich IM: Glasses IM: Spiderbox	IM: Two Triangle's Area DM: Taco Chart INSM: First Rate INSM: Patterns in Prague INSM: Rugs
8.G.8		IM: Finding Isosceles Triangles	IM: Finding Distance Between Points
8.G.9		IM: Glasses IM: Flower Vases	IM: Comparing Snow Cones IM: Shipping Rolled Oats
G-CO.1	M1	Defining Parallel Lines Defining Perpendicular Lines Virtual Nerd : Videos - What is a point, line segment, angle, parallel/perpendicular lines, circle Shmoop.com: shmoop.com assignments and activities	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems Skubes.com: Online Tutorials

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		Illustrative Mathematics: Illustrative Mathematics	Pbslearningmedia: pbs learning media resources
G-CO.2	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems VirtualNerd: Using Matrices to translate a figure VirtualNerd: Dilation activity VirtualNerd: Reflect over x-axis VirtualNerd: Reflect over the y-axis VirtualNerd: Rotate 90 Degrees About the Origin VirtualNerd: Rotate 180 Degrees about Origin VirtualNerd: Rotate 270 Degrees About Origin VirtualNerd: Translate Horizontally VirtualNerd: Translate Vertically	VirtualNerd: Reflections VirtualNerd: Rotations VirtualNerd: Translations VirtualNerd: Transformations OnlineMathLearning.com: Transformations in the Plane (Video Lessons) Betterlesson.com: Lesson resources Byrne: Using Transformations to Create Logos (application) Skubes.com: Online Tutorials Pbslearningmedia: pbs learning media resources
G-CO.3	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems VirtualNerd: Reflections VirtualNerd: Rotations	Bymath.com: Parallelogram and Trapezoid - Lesson Cpalms.org: Given: Rectangle, Parallelogram, etc. - describe rotations/reflections Skubes.com: Online Tutorials Pbslearningmedia: pbs learning media resources
G-CO.4	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems Cpalms.org: Resources Skubes.com: Online Tutorials	Inside Mathematics: Between The Lines (POM) Inside Mathematics: Once Upon a Time (POM) Inside Mathematics: The Shape of Things (POM)

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			Pbslearningmedia: pbs learning media resources
G-CO.5	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems Skubes.com: Online Tutorials	Ccssmath.org: Lesson - Geometric Quilts Ccssmath.org: Transformations on the Graphing Calculator Inside Mathematics: The Shape of Things (POM)
G-CO.6	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems	Pbslearningmedia: pbs learning media resources Skubes.com: Online Tutorials
G-CO.7	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems Skubes.com: Online Tutorials Inside Mathematics: Between The Lines (POM) VirtualNerd.com: Video - How to Determine if Two Triangles are Congruent	VirtualNerd.com: Video - How do You Use a Congruence Postulate to prove Triangles are Congruent? VirtualNerd.com: Video - How do You Show That Corresponding Parts of Congruent Triangle Are Congruent? VirtualNerd.com: Video - How do You Prove That Two Overlapping Triangles are Congruent? VirtualNerd.com: Video - What is CPCTC? Pbslearningmedia: pbs learning media resources
G-CO.9	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems Skubes.com: Online Tutorials Inside Mathematics: Between The Lines (POM) Inside Mathematics: Circles in Triangles (Performance Task) Inside Mathematics: Quadrilaterals - Performance Task Math is Fun: Math is Fun - Various activities	Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems Skubes.com: Online Tutorials Inside Mathematics: Between The Lines (POM) Inside Mathematics: Circles in Triangles (Performance Task) Inside Mathematics: The Shape of Things (POM)

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			Pbslearningmedia: pbs learning media resources VirtualNerd.com: Resources
G-CO.12	M1	Math is Fun: Math is Fun - Various activities Inside Mathematics: Problems of the Month - Provides Differentiated levels for problems Skubes.com: Online Tutorials Inside Mathematics: Circular Reasoning (POM) Inside Mathematics: Polly Gone (POM)	Inside Mathematics: Once Upon a Time (POM) Inside Mathematics: The Shape of Things (POM) Inside Mathematics: What' Your Angle (POM) Pbslearningmedia: pbs learning media resources VirtualNerd.com: Resources
G-CO.13	M1	Inside Mathematics: Circular Reasoning (POM) Math is Fun: Math is Fun - Various activities Cpalms.org: Given: Rectangle, Parallelogram, etc. - describe rotations/reflections	Pbslearningmedia: pbs learning media resources Skubes.com: Online Tutorials VirtualNerd.com: Resources

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HOT Tasks	<p><i>“Higher order questions are those that the students cannot answer just by simple recollection or by reading the information “verbatim” from the text. Higher-order questions put advanced cognitive demand on students. They encourage students to think beyond literal questions.</i></p> <p><i>Higher-order questions promote critical thinking skills because these types of questions expect students to apply, analyze, synthesize, and evaluate information instead of simply recalling facts.”</i></p> <p>https://dataworks-ed.com/blog/2014/10/higher-order-questions/</p>