	New York State Next Generation Mathematics Learning Standards		
	Geometry Crosswalk		
Geometry			
Congruence (G.CO)			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard	
Experiment with	G-CO.1 Know precise definitions of angle, circle,	GEO-G.CO.1 Know precise definitions of angle, circle,	
transformations in the	perpendicular line, parallel line, and line segment, based	perpendicular lines, parallel lines, and line segment, based on the	
plane.	on the undefined notions of point, line, distance along a	undefined notions of point, line, distance along a line, and distance	
	line, and distance around a circular arc.	around a circular arc as these exist within a plane.	
	G-CO.2 Represent transformations in the plane using,		
	e.g., transparencies and geometry software; describe		

	New York State Next Generation Mathematics Learning Standards			
	Geometry Cross	walk		
	Geometry			
	Congruence (G.CO)			
Cluster	NYS P-12 CCLS	Next Generation Learning Standard (2017)		
Prove geometric theorems.	G-CO.9 Prove theorems about lines and angles. Theorems include: vertical angles are congruent; when a transversal crosses parallel lines, alternate interior angles are congruent and corresponding angles are congruent; points on a perpendicular bisector of a line segment are exactly Note: Theorems include but are not limited to the listed theorems. Example: theorems that involve complementary or supplementary angles.	 GEO-G.CO.9 Prove and apply theorems about lines and angles. Note: Include multi-step proofs and algebraic problems built upon these concepts. Examples of theorems include but are not limited to: Vertical angles are congruent. If two parallel lines are cut by a transversal, then the alternate interior angles are congruent. The points on a perpendicular bisector are equidistant from the endpoints of the line segment. 		

G-CO.10 Prove theorems about triangles. *Theorems*

New York State Next Generation Mathematics Learning Standards Geometry Crosswalk Geometry Congruence (G.CO)

Cluster

New York State Next Generation Mathematics Learning Standards			
Geometry Crosswalk			
	Geometry		
Similarity, Right Triangles and Trigonometry (G.SRT)			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard	
Prove theorems	G-SRT.4 Prove theorems about triangles. <i>Theorems</i>		
involving similarity.	include: a line parallel to one side of a triangle divides the		

	New York State Next Generation Mathematics Learning Standards		
	Geometry Crosswalk		
	Geometry		
Similarity, Right Triangles and Trigonometry (G.SRT)			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard	
Define trigonometric ratios and solve problems involving right triangles.	G-SRT.6 Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trm0 G[h5/F1 9.96Tf1 539.5 6 7.14 0.48 refy)		

New York State Next Generation Mathematics Learning Standards Geometry Crosswalk Geometry Circles (G.C)

	New York State Next Generation Mathematics I	Learning Standards		
	Geometry Crosswalk			
Geometry				
Expressing Geometric Properties with Equations (G.GPE)				
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard		
Translate between the geometric description and the equation of a conic section.	G-GPE.1 Derive the equation of a circle of given center and radius using the Pythagorean Theorem;			

New York State Next Generation Mathematics Learning Standards

Geometry Crosswalk

Geometry

Expressing Geometric Properties with Equations (G.GPE)

NYSED Geometry Draft Updated June 2019: Specific modeling domains, clusters and standards are indicated by a star symbol ★.

New York State Next Generation Mathematics Learning Standards

Geometry Crosswalk

Geometry

Expressing Geometric Properties with Equations (G.GPE)

	New York State Next Generation Mathematics Learning Standards		
	Geometry Crosswalk		
	Geometry		
Geometric Measurement and Dimension (G.GMD)			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard	
Explain volume	G-GMD.1 Give an informal argument for the formulas for	GEO-G.GMD.1 Provide informal arguments for the formulas for the	
formulas and use them	the circumference of a circle, area of a circle, volume of a	circumference of a circle, area of a circle, volume of a cylinder,	
to solve problems.	cylinder, pyramid, and cone. <i>Use dissection arguments</i> ,	pyramid, and cone.	
	G-GMD.3 Use volume formulas for cylinders, pyramids,	GEO-G.GMD.3 Use volume formulas for cylinders, pyramids,	
	cones, and spheres to solve problems. ★	cones, and spheres to solve problems. ★	

Visualize relationship between twodimensional and three-dimensional objects.

Visualize relationships G-GMD.4 Identify the shapes of two-dimenn

New York State Next Generation Mathematics Learning Standards			
Geometry Crosswalk			
Geometry			
Modeling with Geometry (G.MG) ★			
Cluster	NYS P-12 CCLS	NYS Next Generation Learning Standard	

Apply geometric