

Pennsylvania High School Geometry Curriculum Mapping

Geometry Performance Standard	Boardworks High School Geometry presentation
2.9. Geometry	
	Prisms Pyramids Cylinders, cones and spheres Using length, area and volume formulas Triangles Quadrilaterals Polygons Interior and exterior angles of polygons Using polygons Edges of rectangular prisms Surface area of rectangular prisms Volume of right rectangular prisms Radius and circumference The area of a circle The length of an arc The area of a sector Parts of a circle Angles in a circle
2.9.G.A. Identify and use properties and relations of geometric figures; create justifications for arguments related to geometric relations.	
2.9.G.B. Use arguments based on transformations to establish congruence or similarity of 2- dimensional shapes.	Congruence and similarity Similar right triangles Dilation
	The distance between two points The midpoint of a line segment Slopes and intercepts The equation of a straight line
2.9.G.C. Use techniques from coordinate geometry to establish properties of lines, 2-dimensional shapes.	The equation of a circle Using circle properties
Grade 11	

	Prisms Pyramids Cylinders, cones and spheres Using length, area and volume formulas Triangles Quadrilaterals Polygons Interior and exterior angles of polygons Using polygons Edges of rectangular prisms Surface area of rectangular prisms Volume of right rectangular prisms Radius and circumference The area of a circle The length of an arc The area of a sector Parts of a circle Angles in a circle
2.9.11.A. Create justifications for arguments related to geometric relations.	Angles in a circle
2.9.11.B. Use arguments based on transformations to establish congruence or similarity of 2- dimensional shapes.	Congruence and similarity Similar right triangles Dilation
2.9.11.C. Use techniques from coordinate geometry to establish properties of lines, shapes, and solids.	The distance between two points The midpoint of a line segment Slopes and intercepts The equation of a straight line The equation of a circle Using circle properties
2.10. Trigonometry	

<p>2.10.G.A. Identify, create, and solve practical problems involving right triangles using the trigonometric ratios and the Pythagorean Theorem.</p>	<p>The Pythagorean Theorem Identifying right triangles Pythagorean triples Similar right triangles Calculating sides of a triangle Finding the length of diagonals using the Pythagorean Theorem Finding the height of triangles using the Pythagorean Theorem Using the Pythagorean Theorem to solve problems in context Finding the distance between two points using the Pythagorean Theorem Finding the diagonal in a rectangular prism Right triangles The sine ratio The cosine ratio The tangent ratio Trigonometry summary Applying trigonometry Opposite and adjacent sides The sine, cosine and tangent of any angle Trig value functions on the unit circle Sin, cos and tan of 30, 45 and 60 Inverses in trigonometry The area of a triangle The law of sines The law of cosines</p>
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