

AMSCO Geometry alignment to Pennsylvania Common Core Standards

PA Common Core Standards	AMSCO Geo Lesson(s)
CC.2.3.HS.A.1 Use geometric figures and their properties to represent transformations in the plane.	1.3, 1.4, 1.5, 1.6, 1.7, 2.2, 2.4, 11.3, 11.4
CC.2.3.HS.A.2 Apply rigid transformations to determine and explain congruence.	1.3, 1.4, 1.5, 1.6, 1.7, 5.4
CC.2.3.HS.A.3 Verify and apply geometric theorems as they relate to geometric figures.	3.4, 4.1, 4.2, 4.3, 4.5, 5.1, 5.3, 5.4, 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.3, 7.4, 9.1, 9.2, 9.3
CC.2.3.HS.A.4 Apply the concept of congruence to create geometric constructions.	1.1, 4.3, 5.1, 6.2, 6.3, 8.1, 8.3, 9.6
CC.2.3.HS.A.5 Create justifications based on transformations to establish similarity of plane figures.	2.1, 2.2, 2.3, 2.4, 7.1
CC.2.3.HS.A.6 Verify and apply theorems involving similarity as they relate to plane figures.	2.2, 2.3, 5.2, 5.3, 5.4, 6.2, 7.1, 7.2, 7.4
CC.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles.	7.3, 7.5, 7.6
CC.2.3.HS.A.8 Apply geometric theorems to verify properties of circles.	6.3, 6.5, 8.1, 8.2, 8.3, 8.4, 11.3
CC.2.3.HS.A.9 Extend the concept of similarity to determine arc lengths and areas of sectors of circles.	8.5
CC.2.3.HS.A.10 Translate between the geometric description and the equation for a conic section.	11.1, 11.2, 11.3, 11.4
CC.2.3.HS.A.11 Apply coordinate geometry to prove simple geometric theorems algebraically.	1.2, 4.4, 6.1, 6.3, 6.4, 9.1, 9.5, 9.6
CC.2.3.HS.A.12 Explain volume formulas and use them to solve problems.	10.3
CC.2.3.HS.A.13 Analyze relationships between two-dimensional and three-dimensional objects.	10.1, 10.4, 11.1, 11.2
CC.2.3.HS.A.14 Apply geometric concepts to model and solve real world problems.	9.6, 9.7, 9.8, 10.2, 10.3, 10.5,
CC.2.4.HS.B.6 Use the concepts of independence and conditional probability to interpret data.	12.1, 12.3, 12.4, 12.5
C.2.4.HS.B.7 Apply the rules of probability to compute probabilities of compound events in a uniform probability model.	12.1, 12.3, 12.4, 12.5