

AMSCO Algebra 1 alignment to Pennsylvania Common Core Standards

PA Common Core Standards	AMSCO A1 Lesson(s)
CC.2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents.	9.1
CC.2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical	9.1, 9.3
CC.2.1.HS.F.3 Apply quantitative reasoning to choose and Interpret units and scales in formulas, graphs and data displays.	2.3, 3.8, 9.3
CC.2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems.	2.3, 3.8
CC.2.1.HS.F.5 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	9.3
CC.2.2.HS.D.1 Interpret the structure of expressions to represent a quantity in terms of its context.	6.1, 6.6, 6.7, 7.1, 7.2, 7.3, 7.4, 8.1, 8.6, 8.9, 9.3
CC.2.2.HS.D.2 Write expressions in equivalent forms to solve problems.	8.2, 8.9, 9.2, 9.3
CC.2.2.HS.D.3 Extend the knowledge of arithmetic operations and apply to polynomials.	6.1, 6.2, 6.3, 6.4, 6.5, 6.7
CC.2.2.HS.D.7 Create and graph equations or inequalities to describe numbers or relationships.	2.2, 2.4, 2.6, 2.8, 4.1, 4.2, 5.4, 8.2, 8.9, 9.3
CC.2.2.HS.D.8 Apply inverse operations to solve equations or formulas for a given variable.	2.1, 8.2
CC.2.2.HS.D.9 Use reasoning to solve equations and justify the solution method.	2.1, 8.2
CC.2.2.HS.D.10 Represent, solve and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically.	4.2, 4.5, 5.1, 5.2, 5.3, 8.2, 8.3, 8.6, 8.8, 8.9, 8.10
CC.2.2.HS.C.1 Use the concept and notation of functions to interpret and apply them in terms of their context.	3.5, 8.11, 9.4, 9.5
CC.2.2.HS.C.2 Graph and analyze functions and use their properties to make connections between the different representations.	3.8, 4.3, 4.4, 8.6, 8.9, 8.11, 9.2, 9.3
CC.2.2.HS.C.3 Write functions or sequences that model relationships between two quantities.	3.6, 3.8, 9.4, 9.5
CC.2.2.HS.C.4 Interpret the effects transformations have on functions and find the inverse of functions.	3.7, 4.4, 8.7, 9.2
CC.2.2.HS.C.5 Construct and compare linear, quadratic and exponential models to solve problems.	3.8, 9.2, 9.4, 9.5
CC.2.2.HS.C.6 Interpret functions in terms of the situation they model.	3.8, 9.3
CC.2.4.HS.B.1 Summarize, represent, and interpret data on a single count or measurement variable.	10.1, 10.2, 10.3
CC.2.4.HS.B.2 Summarize, represent, and interpret data on two categorical and quantitative variables.	10.4, 10.5, 10.6
CC.2.4.HS.B.3 Analyze linear models to make interpretations based on the data.	10.4
CC.2.4.HS.B.7 Apply the rules of probability to compute probabilities of compound events in a uniform probability model.	Taught in earlier course.