Subject	Grade	Body Of Knowledge/ Strand	Idea/Standard	AccessPoint#	Description	Pg. No.	Reference Example	Page Link
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning	Interpret and rewrite algebraic expressions and equations in equivalent forms.	MA.912.AR.1.AP.1	Identify a part(s) of an equation or expression and explain the meaning within the context of a problem.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.2	Rearrange an equation or a formula for a specific variable.	109 111	Example 4 Exercises 39-42 Exercise 47-48 Exercise 49-52	https://wgdesigngroup.com/Pearson/algebra_trig/109 https://wgdesigngroup.com/Pearson/algebra_trig/111 https://wgdesigngroup.com/Pearson/algebra_trig/ https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.3	Add, subtract and multiply polynomial expressions with integer coefficients.	59	Problem 71 - 78	https://wgdesigngroup.com/Pearson/algebra_trig/59
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.4	Divide a polynomial expression by a monomial expression with integer coefficients.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.5	Divide polynomial expressions using long division, synthetic division and algebraic manipulation where the denominator is a linear expression.	56 57 59	Example 9 Example 10 Exercise 97 Exercise 101	https://wgdesigngroup.com/Pearson/algebra_trig/56 https://wgdesigngroup.com/Pearson/algebra_trig/57 https://wgdesigngroup.com/Pearson/algebra_trig/59 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.6	Solve mathematical and/or real-world problems involving addition, subtraction, multiplication or division of polynomials with integer coefficients.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.7	Factor a quadratic expression.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.8	Select a polynomial expression as a product of polynomials with integer coefficients over the real or complex number system.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.1.AP.9	Apply previous understanding of rational number operations with common denominators to add and subtract rational expressions.	72 75 75-77	Rational Expressions Adding and Subtracting Rational Expressions Example 4	https://wgdesigngroup.com/Pearson/algebra_trig/72 https://wgdesigngroup.com/Pearson/algebra_trig/75 https://wgdesigngroup.com/Pearson/algebra_trig/75
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.2.AP.1	Given an equation in a real-world context, solve one-variable multi-step linear equations.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.2.AP.2	Select a linear two-variable equation to represent relationships between quantities from a graph, a written description or a table of values within a mathematical or real-world context.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.2.AP.3	Select a linear two-variable equation in slope intercept form for a line that is parallel or perpendicular to a given line and goes through a given point.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.2.AP.4	Given a table, equation or written description of a linear function, select a graph of that function and determine at least two key features (can include domain, range, y-	239 240	Example 3 Example 4	https://wgdesigngroup.com/Pearson/algebra_trig/239 https://wgdesigngroup.com/Pearson/algebra_trig/240
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.2.AP.5	Given a mathematical and/or real-world problem that is modeled with linear functions, solve the mathematical problem, or select the graph using key features (in terms of	114 115	Example 2 Example 3	https://wgdesigngroup.com/Pearson/algebra_trig/114 https://wgdesigngroup.com/Pearson/algebra_trig/115
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.2.AP.6	Given a mathematical and/or real-world context, select a one-variable linear inequality that represents the solution algebraically or graphically.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.2.AP.7	Select a two-variable linear inequality to represent relationships between quantities from a graph.	NA	NA	

Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning	Write, solve and graph linear equations, functions and inequalities in one and two variables.	MA.912.AR.2.AP.8	Given a two-variable linear inequality, select a graph that represents the solution.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.1	Given a one-variable quadratic equation from a mathematical or real-world context, select the solution to the equation over the real number system.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.2	Solve mathematical one-variable quadratic equations with integer coefficients over the real and complex number systems.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.3	Given a mathematical or real-world context, select a one-variable quadratic inequality over the real number system that represents the solution algebraically or graphically.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.4	Select a quadratic function to represent the relationship between two quantities from a graph.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.5	Given the x-intercepts and another point on the graph of a quadratic function, select the equation for the function.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.6	Given an expression or equation representing a quadratic function in vertex form, determine the vertex and zeros.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.7	Given a table, equation or written description of a quadratic function, select the graph that represents the function.	329 329-330	Graph of a Quadratic Function Example 4	https://wgdesigngroup.com/Pearson/algebra_trig/329 https://wgdesigngroup.com/Pearson/algebra_trig/329
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.8	Given a mathematical and/or real-world problem that is modeled with quadratic functions, solve the mathematical problem, or select the graph using key features (in terms of context) that represents this model.	335 338 Problem 74	Problem 55 - 60 Problem 73 Problem 74	https://wgdesigngroup.com/Pearson/algebra_trig/335 https://wgdesigngroup.com/Pearson/algebra_trig/338 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.9	Select two-variable quadratic inequalities to represent relationships between quantities from a graph or a written description.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.3.AP.10	Select the graph of the solution set to a two-variable quadratic inequality.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning	Write, solve and graph absolute value equations, functions and inequalities in one and two variables.	MA.912.AR.4.AP.1	Solve a one variable absolute value equation.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.4.AP.2	Solve a one-variable absolute value inequality. Represent solutions algebraically or graphically.	182 185 Exercise 11 Exercise 19	Example 2 Example 3 Exercise 11 Exercise 19	https://wgdesigngroup.com/Pearson/algebra_trig/182 https://wgdesigngroup.com/Pearson/algebra_trig/185 https://wgdesigngroup.com/Pearson/algebra_trig/ https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.4.AP.3	Given a table, equation or written description of an absolute value function, select the graph that represents the function.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.4.AP.4	Given a mathematical and/or real-world problem that is modeled with absolute value functions, solve the mathematical problem, or select the graph using key features (in terms of context) that represents this model.	271 274 277	Absolute Value Function Problem 10 Problem 48	https://wgdesigngroup.com/Pearson/algebra_trig/271 https://wgdesigngroup.com/Pearson/algebra_trig/274 https://wgdesigngroup.com/Pearson/algebra_trig/277
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.2	Solve one-variable equations involving logarithms or exponential expressions. Identify any extraneous solutions.	492 492 492	Logarithmic Equations Example 5 Example 6	https://wgdesigngroup.com/Pearson/algebra_trig/492 https://wgdesigngroup.com/Pearson/algebra_trig/ https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.3	Given a real-world context, identify an exponential function as representing growth or decay.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.4	Select an exponential function to represent two quantities from a graph or a table of values.	450	Exponential Functions	https://wgdesigngroup.com/Pearson/algebra_trig/450

Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.5	Given an expression or equation representing an exponential function, reveal the constant percent rate of change per unit interval using the properties of exponents.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.6	Given a table, equation or written description of an exponential function, select the graph that represents the function.	451	Example 2	https://wgdesigngroup.com/Pearson/algebra_trig/451
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.7	Given a mathematical and/or real-world problem that is modeled with exponential functions, solve the mathematical problem, or select the graph using key features (in terms of	461 462	Problem 107 Problem 108	https://wgdesigngroup.com/Pearson/algebra_trig/461 https://wgdesigngroup.com/Pearson/algebra_trig/462
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.8	Given an equation of a logarithmic function, select the graph of that function.	465 467-468	Logarithmic Functions Example 3	https://wgdesigngroup.com/Pearson/algebra_trig/465 https://wgdesigngroup.com/Pearson/algebra_trig/467
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.5.AP.9	Given a mathematical and/or real-world problem that is modeled with logarithmic functions, solve the mathematical problem, or select the graph using key features (in terms of context) that represents this model.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning	Solve and graph polynomial equations and functions in one and two variables.	MA.912.AR.6.AP.1	Solve one-variable polynomial equations of degree 3 or higher in factored form, over the real number system.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.6.AP.5	Create a rough graph of a polynomial function of degree 3 or higher (in factored form) using zeros, multiplicity and knowledge of end behavior.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.7.AP.1	Solve one-variable radical equations and identify any extraneous solutions.	158 158-159	Equations with Radicals Example 4 Example 5	https://wgdesigngroup.com/Pearson/algebra_trig/158 https://wgdesigngroup.com/Pearson/algebra_trig/158 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.7.AP.2	Given a table, equation or written description of a square root or cube root function, select the graph that represents the function.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.7.AP.3	Given a mathematical and/or real-world problem that is modeled with square root or cube root functions, solve the mathematical problem, or select the graph using key features (in terms of context) that represents this model.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.8.AP.1	Solve one-variable rational equations and identify any extraneous solutions.	154	Example 1	https://wgdesigngroup.com/Pearson/algebra_trig/154
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.8.AP.2	Given a table, equation or written description of a rational function, select the graph that represents the function.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.8.AP.3	Given a mathematical and/or real-world problem that is modeled with rational functions, solve the mathematical problem, or select the graph using key features (in terms of context) that represents this model.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning	Write and solve a system of two- and three-variable equations and inequalities that describe quantities or relationships.	MA.912.AR.9.AP.1	Given an algebraic or graphical system of two-variable linear equations, select the solution to the system of equations.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.9.AP.2	Solve a system consisting of a two-variable linear equation and a quadratic equation algebraically or graphically.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.9.AP.3	Solve a system consisting of two-variable linear or quadratic equations algebraically or graphically.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.9.AP.4	Select the graph of the solution set of a system of two-variable linear inequalities.	939 - 940 947	Linear Inequality in Two Variables Example 1 Exercise 11	https://wgdesigngroup.com/Pearson/algebra_trig/939 https://wgdesigngroup.com/Pearson/algebra_trig/947 https://wgdesigngroup.com/Pearson/algebra_trig/

Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.9.AP.5	Select the graph of the solution set of a system of two-variable inequalities.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.9.AP.6	Given a real-world context, as systems of linear equations or inequalities with identified constraints, select a solution as a viable or non-viable option.	943-944 945 - 946	Example 4 Example 5	https://wgdesigngroup.com/Pearson/algebra_trig/943 https://wgdesigngroup.com/Pearson/algebra_trig/945
Mathematics (B.E.S.T.)	9 to 12	Algebraic Reasoning		MA.912.AR.9.AP.7	Given a real-world context, as systems of linear and non-linear equations or inequalities with identified constraints, select a solution as a viable or non-viable option.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability	Summarize, represent and interpret categorical and numerical data with one and two variables.	MA.912.DP.1.AP.1a	Given a set of data, select an appropriate table or graph to represent categorical data and whether it is univariate or bivariate.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.1.AP.1b	Given a set of data, select an appropriate table or graph to represent numerical data and whether it is univariate or bivariate.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.1.AP.2	Given a univariate or bivariate data distribution (numerical or categorical), identify the different components and quantities in the display.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.1.AP.3	Identify whether the data are explained by correlation or causation in the contexts of both numerical and categorical data.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.1.AP.4	Given the mean or percentage and the margin of error from a sample survey, identify a population total.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability	Solve problems involving univariate and bivariate numerical data.	MA.912.DP.2.AP.4	Fit a linear function to bivariate numerical data that suggest a linear association and interpret the slope and y-intercept of the model.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.2.AP.6	Given a scatter plot with a line of fit and residuals, determine the strength and direction of the correlation. Interpret strength and direction within a real-world context.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.2.AP.8	Given a scatter plot, select a quadratic function that fits the data the best.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.2.AP.9	Given a scatter plot, select an exponential function that fits the data the best.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.2.AP.1	For two sets of numerical univariate data, calculate and compare the mean, median and range, then select the shape of the data from given graphs.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.2.AP.5	Match a scatter plot that represents bivariate numerical data with its residual plot.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability	Solve problems involving categorical data.	MA.912.DP.3.AP.1	When given a two-way frequency table summarizing bivariate categorical data, identify joint and marginal frequencies.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.3.AP.2	Given the marginal relative frequencies and a partially completed two-way table, calculate one missing value per row and/or per column.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.3.AP.3	Given a segmented bar graph summarizing categorical bivariate data, select the interpretation in terms of a real-world context.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.4.AP.1	Given a sample space, select a subset of the sample space or given two sets, select the union, intersection, or complement of two sets.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.4.AP.3	Given the probability of two events, P(A and B) and P(A), in decimal form, select the conditional probability of the two events {[P(A and B))/(P(A)]}.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability	Use and interpret independence and	MA.912.DP.4.AP.6	Recognize the concept of independence in everyday situations.	NA	NA	

Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability	Use and interpret independence and probability.	MA.912.DP.4.AP.7	Given the probability of two mutually exclusive events in decimal form, use the addition rule for mutually exclusive probabilities: P(A or B)=P(A)+P(B).	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.4.AP.8	Given the probability of two independent events in decimal form, use the multiplication rule for independent probabilities: P(A and B)=P(A)P(B).	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability		MA.912.DP.4.AP.2	Given the probability of events A and B and the product of their probabilities, select whether the events are independent or not independent.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability	Determine methods of data collection and make inferences from collected data.	MA.912.DP.5.AP.11	Given a graph representing data, select whether the graph is misleading or not (i.e., scale on x and y axis not consistent, circle graph does not add up to 100%; missing title or title doesn't represent data; or bar widths on bar graph are inconsistent).	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Functions	Understand, compare and analyze properties of functions.	MA.912.F.1.AP.1a	Given an equation or graph that defines a function, identify the function type as either linear, quadratic, or exponential.	324 325	Quadratic Functions and Models Example 1	https://wgdesigngroup.com/Pearson/algebra_trig/324 https://wgdesigngroup.com/Pearson/algebra_trig/325
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.1b	Given an input-output table with an accompanying graph, determine a function type, either linear, quadratic, or exponential that could represent it.	449 -451	Exponential Functions Example 1	https://wgdesigngroup.com/Pearson/algebra_trig/449 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.2	Given a function represented in function notation, evaluate the function for an input in its domain.	513 514	Domain of a Function Equation Defining y as a Function of x	https://wgdesigngroup.com/Pearson/algebra_trig/513 https://wgdesigngroup.com/Pearson/algebra_trig/514
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.3	Given a real-world situation represented graphically or algebraically, identify the rate of change as positive, negative, zero or undefined.	244 244-245	Example 8 Example 9	https://wgdesigngroup.com/Pearson/algebra_trig/244 https://wgdesigngroup.com/Pearson/algebra_trig/244
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.5	Identify key features of linear and quadratic functions each represented in the same way algebraically or graphically (key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior).	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.6	Identify key features of linear, quadratic or exponential functions each represented in a different way algebraically or graphically (key features are limited to domain; range;	458 461	Example 11 Exercise 107	https://wgdesigngroup.com/Pearson/algebra_trig/458 https://wgdesigngroup.com/Pearson/algebra_trig/461
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.7	Compare key features of two functions each represented algebraically or graphically.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.8	Select whether a linear or quadratic function best models a given real-world situation.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.1.AP.9	Select whether a function is even, odd or neither when represented algebraically.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Functions	Identify and describe the effects of transformations on functions. Create new functions given transformations.	MA.912.F.2.AP.1	Select the effect (up, down, left, or right) on the graph of a given function after replacing f(x) by f(x) + k and f(x + k) for specific values of k.	279-280 294	Example 1 Connecting Graphs with Equations	https://wgdesigngroup.com/Pearson/algebra_trig/279 https://wgdesigngroup.com/Pearson/algebra_trig/294
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.2.AP.2	Identify the effect on the graph of a given function of two or more transformations defined by adding a real number to the *x* - or *y* -values.	280	Vertical Stretching or Shrinking of the Graph of a Function Horizontal Stretching or Shrinking of the Graph of a Function	https://wgdesigngroup.com/Pearson/algebra_trig/280 https://wgdesigngroup.com/Pearson/algebra_trig/

Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.2.AP.3	Given the graph of a given function after replacing f(x) by f(x) + k and f(x + k), kf(c), for specific values of k select the type of transformation and find the value of the real number k.	281	Example 2 Reflecting across an Axis	https://wgdesigngroup.com/Pearson/algebra_trig/281 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.2.AP.5	Given a table, equation or graph that represents a function, select a corresponding table, equation or graph of the transformed function defined by adding a real number to the x- or y-values.	287 289	Table - Horizontal Translations Example 9	https://wgdesigngroup.com/Pearson/algebra_trig/287 https://wgdesigngroup.com/Pearson/algebra_trig/289
Mathematics (B.E.S.T.)	9 to 12	Functions	Create new functions from existing functions.	MA.912.F.3.AP.2	Given a mathematical and/or real-world context, combine two or more functions, limited to linear, quadratic, and polynomial, using arithmetic operations of addition, subtraction, or multiplication.	238 238 - 239 244 244-245 324 325 - 326	Linear Functions Example 1 Example 8 Example 9 Polynomial functions Example 1	https://wgdesigngroup.com/Pearson/algebra_trig/238 https://wgdesigngroup.com/Pearson/algebra_trig/238 https://wgdesigngroup.com/Pearson/algebra_trig/244 https://wgdesigngroup.com/Pearson/algebra_trig/244 https://wgdesigngroup.com/Pearson/algebra_trig/324 https://wgdesigngroup.com/Pearson/algebra_trig/325
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.3.AP.4	Given a composite function within a mathematical or real-world context, identify the domain and range of the composite function.	247 302 303-304 311	Problem 21 - 30 Composition of Functions and Domain Example 6 Problem 107-108 Problem 111	https://wgdesigngroup.com/Pearson/algebra_trig/247 https://wgdesigngroup.com/Pearson/algebra_trig/302 https://wgdesigngroup.com/Pearson/algebra_trig/303 https://wgdesigngroup.com/Pearson/algebra_trig/311 https://wgdesigngroup.com/Pearson/algebra_trig/ https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.3.AP.6	Determine whether an inverse function exists by analyzing graphs and equations.	437 725 437 438	Inverse Function Review of Inverse Functions Example 3 Example 4	https://wgdesigngroup.com/Pearson/algebra_trig/437 https://wgdesigngroup.com/Pearson/algebra_trig/725 https://wgdesigngroup.com/Pearson/algebra_trig/437 https://wgdesigngroup.com/Pearson/algebra_trig/438
Mathematics (B.E.S.T.)	9 to 12	Functions		MA.912.F.3.AP.7	Represent the inverse of a function algebraically. Use composition of functions to verify that one function is the inverse of the other.	439 439 - 440 440 - 441	Finding the Equation of the Inverse of y=f(x) Example 5 Example 6	https://wgdesigngroup.com/Pearson/algebra_trig/439 https://wgdesigngroup.com/Pearson/algebra_trig/439 https://wgdesigngroup.com/Pearson/algebra_trig/440
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy	Build mathematical foundations for financial literacy.	MA.912.FL.1.AP.1	Solve real-world problems involving money using percentages and decimals.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.1.AP.2	Solve simple real-world problems involving money using ratios or proportions.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy	Develop an understanding of basic accounting and economic principles.	MA.912.FL.2.AP.2	Calculate the profit when given the expenses and revenue from a real-world problem.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.2.AP.3	Given the consumer price index (CPI), stock indices, or unemployment rates for two different time periods, identify whether the rates are increasing or decreasing.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.2.AP.4	Given current exchange rates, convert between currencies.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.2.AP.5	Given typical monthly expenses (housing, utilities, food, etc.), determine the monthly income needed.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.2.AP.6	Given a paycheck, identify the taxes taken out.	NA	NA	

Mathematics (B.E.S.T.)	9 to 12	Financial Literacy	Describe the advantages and disadvantages of short-term and long-term purchases.	MA.912.FL.3.AP.1	Compare simple and compound interest over time.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.2	Solve real-world problems involving simple and compound interest.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.4	Identify the relationship between simple interest and linear growth. Identify the relationship between compound interest and exponential growth.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.5	Select the advantages and disadvantages of using cash versus credit.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.6	Given a bill statement, identify the finance charge, interest rate and total amount due.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.7	Given two different student loan options, compare the advantages and disadvantages of each loan's interest rate, monthly payment and total cost.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.8	Given the total cost of an item purchased using two different payment plans, calculate the total cost difference of the item between payment plans.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.9	Given two different mortgage loans, one 15-year and one 30-year, compare the advantages and disadvantages of each loan's interest rate, monthly payment and total cost.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.10	Identify how short-term and long-term purchases, past payment history, and amount of debt may increase or decrease credit scores.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.3.AP.11	Given several payment plans, with the monthly payment calculated, select the plan that will reduce the debt the quickest.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy	Describe the advantages and disadvantages of financial and investment plans, including insurances.	MA.912.FL.4.AP.1	Compare various options, deductibles and fees for various types of individual insurance policies, such as medical, car and/or homeowners' insurance.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.4.AP.2	Compare the risk of utilizing or not utilizing a one-time warranty.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.4.AP.3	List the advantages and disadvantages of having a retirement savings plan.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.4.AP.4	Select a retirement savings plan to meet a given personal financial goal.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.4.AP.5	List an advantage of diversifying investments.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Financial Literacy		MA.912.FL.4.AP.6	Simulate the buying and selling of a single stock and identify its worth over time.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning	Prove and apply geometric theorems to solve problems.	MA.912.GR.1.AP.1	Use the relationships and theorems about lines and angles to solve mathematical or real-world problems involving postulates, relationships and theorems of lines and angles.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.1.AP.2	Identify the triangle congruence or similarity criteria; Side-Side-Side, Side-Angle-Side, Angle-Side-Angle, Angle-Angle-Side, Angle-Angle and Hypotenuse-Leg.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.1.AP.3	Use the relationships and theorems about triangles. Solve mathematical and/or real-world problems involving postulates, relationships and theorems of triangles.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.1.AP.4	Use the relationships and theorems about parallelograms. Solve mathematical and/or real-world problems involving postulates, relationships and theorems of parallelograms.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.1.AP.5	Use the relationships and theorems about trapezoids. Solve mathematical and/or real-world problems involving postulates, relationships and theorems of trapezoids.	NA	NA

Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.1.AP.6	Use the definitions of congruent or similar figures to solve mathematical and/or real-world problems involving two-dimensional figures.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning	Apply properties of transformations to describe congruence or similarity.	MA.912.GR.2.AP.1a	Given a preimage and image, identify the transformation.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.2.AP.1b	Select the algebraic coordinates that represent the transformation.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.2.AP.2	Select a transformation that preserves distance.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.2.AP.3	Identify a given sequence of transformations, that includes translations or reflections, that will map a given figure onto itself or onto another congruent figure.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.2.AP.5	Given a geometric figure and a sequence of transformations, select the transformed figure on a coordinate plane.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.2.AP.6	Use rigid transformations that includes translations or reflections to map one figure onto another to show that the two figures are congruent.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.2.AP.8	Identify an appropriate transformation to map one figure onto another to show that the two figures are similar.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning	Use coordinate geometry to solve problems or prove relationships.	MA.912.GR.3.AP.1	Select the weighted average of two or more points on a line.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.3.AP.2	Use coordinate geometry to classify definitions, properties and theorems involving circles, triangles, or quadrilaterals.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.3.AP.3	Use coordinate geometry to solve mathematical geometric problems involving lines, triangles and quadrilaterals.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.3.AP.4	Solve mathematical and/or real-world problems on the coordinate plane involving perimeter or area of a three- or four-sided polygon.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.4.AP.1	Identify the shape of a two-dimensional cross section of a three-dimensional figure.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.4.AP.2	Identify a three-dimensional object generated by the rotation of a two-dimensional figure.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.4.AP.3	Select the effect of a dilation on the area of two-dimensional figures and/or surface area or volume of three-dimensional figures.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.4.AP.4	Solve mathematical and/or real-world problems involving the area of triangles, squares, circles or rectangles.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.4.AP.5	Solve mathematical or real-world problems involving the volume of three-dimensional figures limited to cylinders, pyramids, prisms, or cones.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.4.AP.6	Solve mathematical or real-world problems involving the surface area of three-dimensional figures limited to cylinders, pyramids, prisms, and cones.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning	Make formal geometric constructions with a variety of tools and methods.	MA.912.GR.5.AP.1	Construct a copy of a segment.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.5.AP.2	Construct the bisector of a segment, including the perpendicular bisector of a line segment.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.5.AP.3	Select the inscribed and circumscribed circles of a triangle.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.6.AP.1	Identify and describe the relationship involving the length of a secant, tangent, segment or chord in a given circle.	NA	NA

Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning	Use properties and theorems related to circles.	MA.912.GR.6.AP.2	Identify the relationship involving the measures of arcs and related angles, limited to central, inscribed and intersections	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.6.AP.3	Identify and describe the relationship involving triangles and quadrilaterals inscribed in a circle.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.6.AP.4	Identify and describe the relationship involving the arc length and area of a sector in a given circle.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning	Apply geometric and algebraic representations of conic sections.	MA.912.GR.7.AP.2	Create the equation of a circle when given the center and radius.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Geometric Reasoning		MA.912.GR.7.AP.3	Given an equation of a circle, identify center and radius, and graph the circle.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Logic and Discrete Theory	Develop an understanding of the fundamentals of propositional logic, arguments and methods of proof.	MA.912.LT.4.AP.3	Identify and accurately interpret “if…then,” “if and only if,” “all” and “not” statements.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Logic and Discrete Theory		MA.912.LT.4.AP.10	Select the validity of an argument or give counterexamples to disprove statements.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations	Generate equivalent expressions and perform operations with expressions involving exponents, radicals or logarithms.	MA.912.NSO.1.AP.1	Evaluate numerical expressions involving rational exponents.	45 47	Rational Exponents Example 7 Example 8	https://wgdesigngroup.com/Pearson/algebra_trig/45 https://wgdesigngroup.com/Pearson/algebra_trig/47 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations		MA.912.NSO.1.AP.2	Identify equivalent algebraic expressions using properties of exponents.	448 158 160-161	Additional Properties of Exponents Power Property Equations with Rational Exponent Example 7	https://wgdesigngroup.com/Pearson/algebra_trig/448 https://wgdesigngroup.com/Pearson/algebra_trig/158 https://wgdesigngroup.com/Pearson/algebra_trig/160 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations		MA.912.NSO.1.AP.3	Using properties of exponents, identify equivalent algebraic expressions involving radicals and rational exponents. Radicands are limited to monomial algebraic expression.	158 159 165 166	Solving an Equation Involving Radicals Example 4 Example 5 Exercise 45 Exercise 57	https://wgdesigngroup.com/Pearson/algebra_trig/158 https://wgdesigngroup.com/Pearson/algebra_trig/159 https://wgdesigngroup.com/Pearson/algebra_trig/165 https://wgdesigngroup.com/Pearson/algebra_trig/166 https://wgdesigngroup.com/Pearson/algebra_trig/
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations		MA.912.NSO.1.AP.4	Apply previous understanding of operations with rational numbers to add and subtract numerical radicals that are in radical form.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations		MA.912.NSO.1.AP.5	Add and subtract algebraic expressions involving radicals. Radicands are limited to monomial algebraic expressions.	NA	NA	
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations		MA.912.NSO.1.AP.6	Given a numerical logarithmic expression, identify an equivalent numerical expression using the properties of logarithms or exponents.	469 470 471	Properties of Logarithms Example 5 Example 6	https://wgdesigngroup.com/Pearson/algebra_trig/469 https://wgdesigngroup.com/Pearson/algebra_trig/470 https://wgdesigngroup.com/Pearson/algebra_trig/471
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations		MA.912.NSO.1.AP.7	Given an algebraic logarithmic expression, identify an equivalent algebraic expression using the properties of logarithms or exponents.	469 524	Properties of Logarithms Problem 4 Problem 6	https://wgdesigngroup.com/Pearson/algebra_trig/469 https://wgdesigngroup.com/Pearson/algebra_trig/524 https://wgdesigngroup.com/Pearson/algebra_trig/

Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations	Represent and perform operations with expressions within the complex number system.	MA.912.NSO.2.AP.1	Extend previous understanding of the real number system to include the complex number system. Add and subtract complex numbers.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Number Sense and Operations		MA.912.NSO.2.AP.2	Represent addition and subtraction of complex numbers geometrically on the complex plane.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Trigonometry	Define and use trigonometric ratios, identities or functions to solve problems.	MA.912.T.1.AP.1	Select a trigonometric ratio for acute angles in right triangles limited to sine or cosine.	NA	NA
Mathematics (B.E.S.T.)	9 to 12	Trigonometry		MA.912.T.1.AP.2	Given a mathematical and/or real-world problem involving right triangles, solve using trigonometric ratio or the Pythagorean Theorem.	NA	NA