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.	NA	NA	
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.	NA	NA	
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.	NA	NA	
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.	NA	NA	
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	Write, solve and graph linear equations, functions and inequalities in one and two variables.	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-intercept or slope).	NA	NA
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 context) that represents this model.	NA	NA
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		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.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA
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 context) that represents this model.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA	
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.	NA	NA	
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.	58 59 60	Example 4 Example 5 Example 6	https://wgdesigngroup.com/Pearson/elem_stat_larson/58 https://wgdesigngroup.com/Pearson/elem_stat_larson/59 https://wgdesigngroup.com/Pearson/elem_stat_larson/60
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.	60 65 - 66	Try it Yourself 6 Problem 29 Problem 30 Problem31	https://wgdesigngroup.com/Pearson/elem_stat_larson/60 https://wgdesigngroup.com/Pearson/elem_stat_larson/65 https://wgdesigngroup.com/Pearson/elem_stat_larson/ https://wgdesigngroup.com/Pearson/elem_stat_larson/
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.	502	Bivariate Normal Distribution	https://wgdesigngroup.com/Pearson/elem_stat_larson/502
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.	418 514	Exercise 8 Exercise1	https://wgdesigngroup.com/Pearson/elem_stat_larson/ https://wgdesigngroup.com/Pearson/elem_stat_larson/418 https://wgdesigngroup.com/Pearson/elem_stat_larson/514

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.	500	The Standard Error of Estimate	https://wgdesigngroup.com/Pearson/elem_stat_larson/500
						501	Example 2	https://wgdesigngroup.com/Pearson/elem_stat_larson/501
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.	695	Activity 2: Baby Sizes (SE)	https://wgdesigngroup.com/Pearson/elem_stat_larson/695
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.	699	Activity 4: Brr...It's Cold! (SE)	https://wgdesigngroup.com/Pearson/elem_stat_larson/699
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.	701	Activity 5: Algorithmically Supe	https://wgdesigngroup.com/Pearson/elem_stat_larson/701
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.	701	Activity 5: Algorithmically Supe	https://wgdesigngroup.com/Pearson/elem_stat_larson/701
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.	693	Activity 1: Too Many Emails (SI	https://wgdesigngroup.com/Pearson/elem_stat_larson/693
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.	699	Activity 4: Brr...It's Cold! (SE)	https://wgdesigngroup.com/Pearson/elem_stat_larson/699
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.	542	Problem 2	https://wgdesigngroup.com/Pearson/elem_stat_larson/542
						554	In Exercises 7–12	https://wgdesigngroup.com/Pearson/elem_stat_larson/554
							Example 4	https://wgdesigngroup.com/Pearson/elem_stat_larson/
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	46	Example 5	https://wgdesigngroup.com/Pearson/elem_stat_larson/46
						116	Exercises 1 and 2	https://wgdesigngroup.com/Pearson/elem_stat_larson/116
						121	Problem 2	https://wgdesigngroup.com/Pearson/elem_stat_larson/121
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.	553	Example 3	https://wgdesigngroup.com/Pearson/elem_stat_larson/553
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.	158	The Addition Rule	https://wgdesigngroup.com/Pearson/elem_stat_larson/158
							Example 2	https://wgdesigngroup.com/Pearson/elem_stat_larson/
						159	Example 3	https://wgdesigngroup.com/Pearson/elem_stat_larson/159
						161	Example 5	https://wgdesigngroup.com/Pearson/elem_stat_larson/161
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	152	Exercises 7 and 8	https://wgdesigngroup.com/Pearson/elem_stat_larson/152
						153	Classifying Events as Independent or Dependent	https://wgdesigngroup.com/Pearson/elem_stat_larson/153

Mathematics (B.E.S.T.)	9 to 12	Data Analysis and Probability	Use and interpret independence and probability.	MA.912.DP.4.AP.6	Recognize the concept of independence in everyday situations.	148	The question of the independence of two or more events is important to researchers in fields such as marketing, medicine, and psychology. You can use conditional probabilities to determine whether events are independent. Picturing the World	https://wgdesigngroup.com/Pearson/elem_stat_larson/148 https://wgdesigngroup.com/Pearson/elem_stat_larson/
Mathematics (B.E.S.T.)	9 to 12	Data Analysis 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).	157 157 - 158 158	Mutually Exclusive Events Example 1 The Addition Rule for the Probability of A or B Example 2	https://wgdesigngroup.com/Pearson/elem_stat_larson/157 https://wgdesigngroup.com/Pearson/elem_stat_larson/157 https://wgdesigngroup.com/Pearson/elem_stat_larson/158 https://wgdesigngroup.com/Pearson/elem_stat_larson/
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).	149 156	The Multiplication Rule for the Probability of A and B Example 3 Example 4 The Multiplication Rule and Conditional Probability	https://wgdesigngroup.com/Pearson/elem_stat_larson/149 https://wgdesigngroup.com/Pearson/elem_stat_larson/ https://wgdesigngroup.com/Pearson/elem_stat_larson/156 https://wgdesigngroup.com/Pearson/elem_stat_larson/
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	148	Independent and Dependent Events Example 2	https://wgdesigngroup.com/Pearson/elem_stat_larson/148 https://wgdesigngroup.com/Pearson/elem_stat_larson/
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	18 58	Data Collection Example 4 Try it Yourself 4	https://wgdesigngroup.com/Pearson/elem_stat_larson/18 https://wgdesigngroup.com/Pearson/elem_stat_larson/58 https://wgdesigngroup.com/Pearson/elem_stat_larson/
Mathematics (B.E.S.T.)	9 to 12	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.	NA	NA	
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.	NA	NA	
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.	NA	NA	
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.	NA	NA	

Mathematics (B.E.S.T.)	9 to 12	Functions	Understand, compare and analyze properties of 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; 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.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.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA

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.	NA	NA
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.	NA	NA
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.	NA	NA
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.	NA	NA
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		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	Describe the advantages and disadvantages of short-term and long-term purchases.	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		MA.912.GR.5.AP.1	Construct a copy of a segment.	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.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	Use properties and theorems related to circles.	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		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	MA.912.NSO.1.AP.1	Evaluate numerical expressions involving rational exponents.	NA	NA
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.	NA	NA
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.	NA	NA
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	involving exponents, radicals or logarithms.	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.	NA	NA
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.	NA	NA
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