Standard ID	Standard Text	Edgenuity Lesson Name
	Mathematical Practices	
CCSS.Math.Practice.MP1	Make sense of problems and persevere in solving them.	Rate of Change Multiplication of Polynomials Evaluating Logarithmic Expressions Modeling with Exponential and Logarithmic Equations
CCSS.Math.Practice.MP2	Reason abstractly and quantitatively.	Rate of Change Statistical Inferences Hypothesis Testing
CCSS.Math.Practice.MP3	Construct viable arguments and critique the reasoning of others.	The Unit Circle Evaluating the Six Trigonometric Functions
CCSS.Math.Practice.MP4	Model with mathematics.	Modeling with Exponential and Logarithmic Equations Modeling with Periodic Functions Step Functions
CCSS.Math.Practice.MP5	Use appropriate tools strategically.	Solving Polynomial Equations using Technology Solving Logarithmic Equations using Technology
CCSS.Math.Practice.MP6	Attend to precision.	Graphing Radical Functions Graphing Exponential Functions Graphing Logarithmic Functions Modeling with Exponential and Logarithmic Equations Representing Data Graphing Sine and Cosine Modeling with Periodic Functions Step Functions
CCSS.Math.Practice.MP7	Look for and make use of structure.	Completing the Square

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CCSS.Math.Practice.MP8	Look for and express regularity in repeated reasoning.	Completing the Square
CCSS.Math.Content.HSN-CN	The Complex Number System	
CCSS.Math.Content.HSN-CN.A	Perform arithmetic operations with complex numbers.	
CCSS.Math.Content.HSN-CN.A.1	Know there is a complex number i such that i^2 = -1, and every complex number has the form a + bi with a and b real.	Complex Numbers
CCSS.Math.Content.HSN-CN.A.2	Use the relation i^2 = -1 and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.	Operations with Complex Numbers
CCSS.Math.Content.HSN-CN.C	Use complex numbers in polynomial identities and equations.	
CCSS.Math.Content.HSN-CN.C.7	Solve quadratic equations with real coefficients that have complex solutions.	Completing the Square The Quadratic Formula
CCSS.Math.Content.HSN-CN.C.8	(+) Extend polynomial identities to the complex numbers. For example, rewrite x^2 + 4 as (x + 2i)(x - 2i).	The Fundamental Theorem of Algebra
CCSS.Math.Content.HSN-CN.C.9	(+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Completing the Square The Quadratic Formula The Fundamental Theorem of Algebra Writing Polynomial Functions from Complex Roots
	Algebra	
CCSS.Math.Content.HSA-SSE	Seeing Structure in Expressions	
CCSS.Math.Content.HSA-SSE.A	Interpret the structure of expressions.	

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CCSS.Math.Content.HSA-SSE.A.1	Interpret expressions that represent a quantity in terms of its context.	
CCSS.Math.Content.HSA-SSE.A.1.a	Interpret parts of an expression, such as terms, factors, and coefficients.	Factoring Polynomials Completely Multiplying and Dividing Rational Expressions Adding and Subtracting Rational Expressions
CCSS.Math.Content.HSA-SSE.A.1.b	Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret P(1+r)^n as the product of P and a factor not depending on P.	Factoring Polynomials Completely
CCSS.Math.Content.HSA-SSE.A.2	Use the structure of an expression to identify ways to rewrite it. For example, see x^4 - y^4 as (x^2)^2 - (y^2)^2, thus recognizing it as a difference of squares that can be factored as (x^2 - y^2)(x^2 + y^2).	omega standard
CCSS.Math.Content.HSA-SSE.B.4	Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems. For example, calculate mortgage payments.	Geometric Series
CCSS.Math.Content.HSA-APR	Arithmetic with Polynomials and Rational Functions	
CCSS.Math.Content.HSA-APR.A	Perform arithmetic operations on polynomials.	
CCSS.Math.Content.HSA-APR.A.1	Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	Addition and Subtraction of Polynomials Multiplication of Polynomials Division of Polynomials
CCSS.Math.Content.HSA-APR.B	Understand the relationship between zeros and factors of polynomials.	
CCSS.Math.Content.HSA-APR.B.2	Know and apply the Remainder Theorem: For a polynomial p(x) and a number a, the remainder on division by x - a is p(a), so p(a) = 0 if and only if (x - a) is a factor of p(x).	Synthetic Division and the Remainder Theorem Writing Polynomial Functions from Complex Roots

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CCSS.Math.Content.HSA-APR.B.3	Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial.	The Rational Roots Theorem
CCSS.Math.Content.HSA-APR.C	Use polynomial identities to solve problems.	
CCSS.Math.Content.HSA-APR.C.4	Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity (x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2 can be used to generate Pythagorean triples.	The Binomial Theorem
CCSS.Math.Content.HSA-APR.C.5	(+) Know and apply the Binomial Theorem for the expansion of (x + y)^n in powers of x and y for a positive integer n, where x and y are any numbers, with coefficients determined for example by Pascal's Triangle.	The Binomial Theorem
CCSS.Math.Content.HSA-APR.D	Rewrite rational expressions.	
CCSS.Math.Content.HSA-APR.D.6	Rewrite simple rational expressions in different forms; write a(x)/b(x) in the form q(x) + r(x)/b(x), where a(x), b(x), q(x), and r(x) are polynomials with the degree of r(x) less than the degree of b(x), using inspection, long division, or, for the more complicated examples, a computer algebra system.	Division of Polynomials
CCSS.Math.Content.HSA-APR.D.7	(+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.	Multiplying and Dividing Rational Expressions Adding and Subtracting Rational Expressions
CCSS.Math.Content.HSA-CED	Creating Equations	
CCSS.Math.Content.HSA-CED.A	Create equations that describe numbers or relationships.	
CCSS.Math.Content.HSA-CED.A.1	Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.	Rational Equations

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CCSS.Math.Content.HSA-CED.A.2	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	Modeling with Periodic Functions
CCSS.Math.Content.HSA-CED.A.3	Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.	Rational Equations
CCSS.Math.Content.HSA-CED.A.4	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law V = IR to highlight resistance R.	omega standard
CCSS.Math.Content.HSA-REI	Reasoning with Equations and Inequalities	
CCSS.Math.Content.HSA-REI.A	Understand solving equations as a process of reasoning and explain the reasoning.	
CCSS.Math.Content.HSA-REI.A.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.	Rational Equations Adding and Subtracting Radicals Multiplying Radicals Radical Equations and Extraneous Roots
CCSS.Math.Content.HSA-REI.D	Represent and solve equations and inequalities graphically.	
CCSS.Math.Content.HSA-REI.D.11	Explain why the x-coordinates of the points where the graphs of the equations y = f(x) and y = g(x) intersect are the solutions of the equation f(x) = g(x); find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where f(x) and/or g(x) are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.	Solving One-Variable Equations with Systems Solving Polynomial Equations using Technology Rational Equations Solving Logarithmic Equations using Technology Solving Exponential and Logarithmic Equations Absolute Value Functions
	Functions	

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CCSS.Math.Content.HSF-IF	Interpreting Functions	
CCSS.Math.Content.HSF-IF.B	Interpret functions that arise in applications in terms of the context.	
CCSS.Math.Content.HSF-IF.B.4	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.	Completing the Square Square Root Functions Graphing Radical Functions Graphing Exponential Functions Graphing Logarithmic Functions Graphing Sine and Cosine Modeling with Periodic Functions Absolute Value Functions Step Functions
CCSS.Math.Content.HSF-IF.B.5	Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function h(n) gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function.	Relations and Functions Square Root Functions Graphing Radical Functions Graphing Exponential Functions Graphing Logarithmic Functions Graphing Sine and Cosine Modeling with Periodic Functions Absolute Value Functions Step Functions Comparing Characteristics of Functions
CCSS.Math.Content.HSF-IF.B.6	Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.	Rate of Change
CCSS.Math.Content.HSF-IF.C	Analyze functions using different representations.	
CCSS.Math.Content.HSF-IF.C.7	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.	

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CCSS.Math.Content.HSF-IF.C.7.b	Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.	Square Root Functions Graphing Radical Functions Absolute Value Functions Step Functions
CCSS.Math.Content.HSF-IF.C.7.c	Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.	Graphing Polynomial Functions
CCSS.Math.Content.HSF-IF.C.7.e	Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.	Graphing Exponential Functions Graphing Logarithmic Functions Modeling with Exponential and Logarithmic Equations Graphing Sine and Cosine
CCSS.Math.Content.HSF-IF.C.8	Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.	
CCSS.Math.Content.HSF-IF.C.8.a	Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.	Completing the Square
CCSS.Math.Content.HSF-IF.C.8.b	Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as y = (1.02)^t, y = (0.97)^t, y = (1.01)^12t, y = (1.2)^t/10, and classify them as representing exponential growth or decay.	Negative Exponents
CCSS.Math.Content.HSF-IF.C.9	Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum.	Comparing Characteristics of Functions
CCSS.Math.Content.HSF-BF	Building Functions	
CCSS.Math.Content.HSF-BF.A	Build a function that models a relationship between two quantities.	
CCSS.Math.Content.HSF-BF.A.1	Write a function that describes a relationship between two quantities.	

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CCSS.Math.Content.HSF-BF.A.1.b	Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.	Function Operations
CCSS.Math.Content.HSF-BF.B	Build new functions from existing functions.	
CCSS.Math.Content.HSF-BF.B.3	Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.	Symmetry Transformations of Quadratic Functions Square Root Functions Graphing Radical Functions Graphing Exponential Functions Graphing Logarithmic Functions Graphing Sine and Cosine Absolute Value Functions
CCSS.Math.Content.HSF-BF.B.4	Find inverse functions.	
CCSS.Math.Content.HSF-BF.B.4.a	Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. For example, f(x) =2 x^3 for x > 0 or f(x) = (x+1)/(x-1) for x ≠ 1.	Square Root Functions Graphing Logarithmic Functions Evaluating Logarithmic Expressions Modeling with Periodic Functions
CCSS.Math.Content.HSF-LE	Linear, Quadratic, and Exponential Models	
CCSS.Math.Content.HSF-LE.A	Construct and compare linear and exponential models and solve problems.	

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CCSS.Math.Content.HSF-LE.A.4	For exponential models, express as a logarithm the solution to ab^ct = d where a, c, and d are numbers and the base b is 2, 10, or e; evaluate the logarithm using technology.	Evaluating Logarithmic Expressions Solving Logarithmic Equations using Technology Solving Equations using Properties of Logarithms Solving Exponential and Logarithmic Equations Modeling with Exponential and Logarithmic Equations
CCSS.Math.Content.HSF-TF	Trigonometric Functions	
CCSS.Math.Content.HSF-TF.A	Extend the domain of trigonometric functions using the unit circle.	
CCSS.Math.Content.HSF-TF.A.1	Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle.	Radian Measure
CCSS.Math.Content.HSF-TF.A.2	Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.	The Unit Circle Evaluating the Six Trigonometric Functions
CCSS.Math.Content.HSF-TF.B	Model periodic phenomena with trigonometric functions.	
CCSS.Math.Content.HSF-TF.B.5	Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.	Graphing Sine and Cosine Modeling with Periodic Functions
CCSS.Math.Content.HSF-TF.C	Prove and apply trigonometric identities.	
CCSS.Math.Content.HSF-TF.C.8	Prove the Pythagorean identity sin^2(θ) + cos^2(θ) = 1 and use it to find sin(θ), cos(θ), or tan(θ) given sin(θ), cos(θ), or tan(θ) and the quadrant of the angle.	Evaluating the Six Trigonometric Functions
	Statistics and Probability	

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CCSS.Math.Content.HSS-ID	Interpreting Categorical and Quantitative Data	
CCSS.Math.Content.HSS-ID.A	Summarize, represent, and interpret data on a single count or measurement variable	
CCSS.Math.Content.HSS-ID.A.4	Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets and tables to estimate areas under the normal curve.	Standard Deviation Applications with Standard Normal Distribution
CCSS.Math.Content.HSS-IC	Making Inferences and Justifying Conclusions	
CCSS.Math.Content.HSS-IC.A	Understand and evaluate random processes underlying statistical experiments	
CCSS.Math.Content.HSS-IC.A.1	Understand that statistics is a process for making inferences about population parameters based on a random sample from that population.	Designing a Study Representing Data
CCSS.Math.Content.HSS-IC.A.2	Decide if a specified model is consistent with results from a given data-generating process, e.g. using simulation. For example, a model says a spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?	Statistical Inferences
CCSS.Math.Content.HSS-IC.B	Make inferences and justify conclusions from sample surveys, experiments and observational studies	
CCSS.Math.Content.HSS-IC.B.3	Recognize the purposes of and differences among sample surveys, experiments and observational studies; explain how randomization relates to each.	Designing a Study
CCSS.Math.Content.HSS-IC.B.4	Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.	Standard Deviation
CCSS.Math.Content.HSS-IC.B.5	Use data from a randomized experiment to compare two treatments; use simulations to decide if differences between parameters are significant.	Hypothesis Testing
CCSS.Math.Content.HSS-IC.B.6	Evaluate reports based on data.	Representing Data

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CCSS.Math.Content.HSS-MD	Using Probability to Make Decisions	
CCSS.Math.Content.HSS-MD.B	Use probability to evaluate outcomes of decisions	
CCSS.Math.Content.HSS-MD.B.6	(+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator).	Expected Value
CCSS.Math.Content.HSS-MD.B.7	(+) Analyze decisions and strategies using probability concepts (e.g. product testing, medical testing, pulling a hockey goalie at the end of a game).	Expected Value Binomial Distribution