

Standard ID	Standard Text	Edgenuity Lesson Name
	The Number System	
CCSS.Math.Content.8.NS.	Know that there are numbers that are not rational, and approximate them by rational numbers.	
ontent.8.NS.	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Exploring Real Numbers
ontent.8.NS. A.2	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of V2, show that V2 is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	Estimating and Comparing Square Roots
	Expressions and Equations	
CCSS.Math.C ontent.8.EE.	Work with radicals and integer exponents.	
	Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^5 = 3^3 = 1/3^3 = 1/27$.	Powers and Exponents Zero and Negative Exponents Powers with the Same Base Raising a Power to a Power
ontent.8.EE.	Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.	Exploring the Pythagorean Theorem Finding the Hypotenuse in Right Triangles Unknown Leg Lengths in Right Triangles Converse to the Pythagorean Theorem Finding Distance in the Coordinate Plane Pythagorean Theorem in Three Dimensions Applications with the Volume of a Cone Spherical and Cubic Volume Applications



	Standard Text	Edgenuity Lesson Name
CCSS.Math.C	Use numbers expressed in the form of a single digit times a whole-number power of 10 to estimate	Introduction to Scientific Notation
	very large or very small quantities, and to express how many times as much one is than the other. For	Operations with Scientific Notation
	example, estimate the population of the United States as 3 times 10^8 and the population of the	
	world as 7 times 10^9, and determine that the world population is more than 20 times larger.	
	Perform operations with numbers expressed in scientific notation, including problems where both	Introduction to Scientific Notation
	decimal and scientific notation are used. Use scientific notation and choose units of appropriate size	Operations with Scientific Notation
	for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor	
	spreading). Interpret scientific notation that has been generated by technology.	
	Understand the connections between proportional relationships, lines, and linear equations.	
ontent.8.EE.		
B CCSS Math C	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two	Rate of Change and Introduction to Slope
	different proportional relationships represented in different ways. For example, compare a distance-	Proportional Relationships
	time graph to a distance-time equation to determine which of two moving objects has greater speed.	op o. donar relationships
	Use similar triangles to explain why the slope m is the same between any two distinct points on a non-	_
	vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the	Proportional Relationships
B.6	equation y = mx + b for a line intercepting the vertical axis at b.	Slope-Intercept Form
		Similar Triangles and Slope
CCSS.Math.C	Analyze and solve linear equations and pairs of simultaneous linear equations.	
ontent.8.EE.		
С		
	Solve linear equations in one variable.	
ontent.8.EE.		
C.7		Analysias Calvisians
	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no	Analyzing Solutions
	solutions. Show which of these possibilities is the case by successively transforming the given	
	equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results	
	(where a and b are different numbers).	



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CCSS.Math.C	Solve linear equations with rational number coefficients, including equations whose solutions require	Combining Like Terms to Solve Equations
ontent.8.EE.	expanding expressions using the distributive property and collecting like terms.	Solving with the Distributive Property
C.7.b		Solving Equations with Rational Numbers
		Modeling with Variables on Both Sides
		Solving with Variables on Both Sides
		Solving Multistep Equations with Variables on
		Both Sides
CCSS.Math.C	Analyze and solve pairs of simultaneous linear equations.	
ontent.8.EE.		
C.8		
	Understand that solutions to a system of two linear equations in two variables correspond to points	Exploring Systems of Linear Equations
ontent.8.EE.	of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	Using Graphs to Solve Systems
C.8.a		Estimating Solutions of Systems
 CCSS.Math.C	Solve systems of two linear equations in two variables algebraically, and estimate solutions by	Exploring Systems of Linear Equations
ontent.8.EE.	graphing the equations. Solve simple cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$	Using Graphs to Solve Systems
C.8.b	have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.	Estimating Solutions of Systems
		Using Substitution to Solve Systems
		Rewriting Equations to Use Substitution
		Using Addition to Solve Systems
		Multiplying One Equation to Solve Systems
 CCSS.Math.C	Solve real-world and mathematical problems leading to two linear equations in two variables. For	Exploring Systems of Linear Equations
	example, given coordinates for two pairs of points, determine whether the line through the first pair	Using Graphs to Solve Systems
C.8.c	of points intersects the line through the second pair.	Estimating Solutions of Systems
	•	Writing and Solving Systems
		Rewriting Equations to Use Substitution
		Problem Solving with Systems



tandard ID	Standard Text	Edgenuity Lesson Name
	Functions	
CSS.Math.C	Define, evaluate, and compare functions.	
ntent.8.F.A		
CCSS.Math.C	Understand that a function is a rule that assigns to each input exactly one output. The graph of a	Introduction to Functions
ontent.8.F.A.	function is the set of ordered pairs consisting of an input and the corresponding output.	Slope-Intercept Form
CCSS.Math.C	Compare properties of two functions each represented in a different way (algebraically, graphically,	Graphing on the Coordinate Plane
ntent.8.F.A.	numerically in tables, or by verbal descriptions). For example, given a linear function represented by a	Constructing Linear Functions
!	table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.	Comparing Slopes and Intercepts
CCSS.Math.C	Interpret the equation y = mx + b as defining a linear function, whose graph is a straight line; give	Linear vs. Nonlinear Functions
ntent.8.F.A.	examples of functions that are not linear. For example, the function $A = s^2$ giving the area of a	Slope-Intercept Form
}	square as a function of its side length is not linear because its graph contains the points (1,1), (2,4)	Writing Linear Equations Given Two Points
	and (3,9), which are not on a straight line.	Applying Linear Functions
	22 (2/2 // a. aaaaaa.	
CCSS.Math.Content.8.F.B	Use functions to model relationships between quantities.	, , , , , , , , , , , , , , , , , , ,
ontent.8.F.B	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of	Tables, Graphs, and Equations
ontent.8.F.B	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values,	
ontent.8.F.B	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values,	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope Proportional Relationships
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope Proportional Relationships Slope-Intercept Form
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope Proportional Relationships Slope-Intercept Form Graphing in a Variety of Contexts
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope Proportional Relationships Slope-Intercept Form Graphing in a Variety of Contexts Writing Linear Equations Given Two Points
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope Proportional Relationships Slope-Intercept Form
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope Proportional Relationships Slope-Intercept Form Graphing in a Variety of Contexts Writing Linear Equations Given Two Points Applying Linear Functions Writing and Solving Systems
CCSS.Math.Content.8.F.B.	Use functions to model relationships between quantities. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of	Tables, Graphs, and Equations Constructing Linear Functions Rate of Change and Introduction to Slope Exploring Slope Proportional Relationships Slope-Intercept Form Graphing in a Variety of Contexts Writing Linear Equations Given Two Points Applying Linear Functions



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	Geometry	
CCSS.Math.C	Understand congruence and similarity using physical models, transparencies, or geometry software.	
ontent.8.G.A		
CCSS.Math.C	Verify experimentally the properties of rotations, reflections, and translations:	
ontent.8.G.A		
.1		
CCSS.Math.C	Lines are taken to lines, and line segments to line segments of the same length.	Congruence
ontent.8.G.A		Overview of Transformations
.1.a		Congruence and Transformations
CCSS.Math.C	Angles are taken to angles of the same measure.	Congruence
ontent.8.G.A		Overview of Transformations
.1.b		Congruence and Transformations
CCSS.Math.C	Parallel lines are taken to parallel lines.	Congruence
ontent.8.G.A		Overview of Transformations
.1.c		Congruence and Transformations
CCSS.Math.C	Understand that a two-dimensional figure is congruent to another if the second can be obtained from	Congruence and Transformations
ontent.8.G.A	the first by a sequence of rotations, reflections, and translations; given two congruent figures,	
.2	describe a sequence that exhibits the congruence between them.	
CCSS.Math.C	Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures	Translations
ontent.8.G.A	using coordinates.	Reflections
.3		Rotations
		Rotations in the Coordinate Plane
		Dilations
		Dilations in the Coordinate Plane

CCSS.Math.C Understand that a two-dimensional figure is similar to another if the second can be obtained from the Similarity and Transformations ontent.8.G.A first by a sequence of rotations, reflections, translations, and dilations; given two similar two-

.4 dimensional figures, describe a sequence that exhibits the similarity between them.



Standard ID Standard Text		Edgenuity Lesson Name
CCSS.Math.C Use informal arguments to establis	h facts about the angle sum and exterior angle of triangles, about	Transversals
ontent.8.G.A the angles created when parallel lin	nes are cut by a transversal, and the angle-angle criterion for	Parallel Lines Cut by a Transversal
.5 similarity of triangles. For example,	, arrange three copies of the same triangle so that the sum of the	Sum of Interior Angles of a Triangle
three angles appears to form a line	e, and give an argument in terms of transversals why this is so.	Exterior Angles of a Triangle
		Similar Triangles
		Similar Triangles and Slope
CCSS.Math.C Understand and apply the Pythago	rean Theorem.	
ontent.8.G.B		
CCSS.Math.C Explain a proof of the Pythagorean	Theorem and its converse.	Exploring the Pythagorean Theorem
ontent.8.G.B		Converse to the Pythagorean Theorem
.6		
,	determine unknown side lengths in right triangles in real-world	Finding the Hypotenuse in Right Triangles
ontent.8.G.B and mathematical problems in two	and three dimensions.	Unknown Leg Lengths in Right Triangles
.7		Pythagorean Theorem in Three Dimensions
CCSS.Math.C Apply the Pythagorean Theorem to ontent.8.G.B	o find the distance between two points in a coordinate system.	Finding Distance in the Coordinate Plane
ontent.8.G.B		
.o CCSS Math C Solve real-world and mathematical	problems involving volume of cylinders, cones, and spheres.	
ontent.8.G.C	problems involving volume of cylinaers, cones, and spireres.	
ontent.o.d.c		
CCSS.Math.C Know the formulas for the volumes	s of cones, cylinders, and spheres and use them to solve real-world	Introduction to the Volume of a Cylinder
ontent.8.G.C and mathematical problems.		Applications with the Volume of a Cylinder
.9		Introduction to the Volume of a Cone
		Applications with the Volume of a Cone
		Introduction to the Volume of a Sphere



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	Statistics and Probability	
CCSS.Math.C ontent.8.SP.	Investigate patterns of association in bivariate data.	
4		
CCSS.Math.C	Construct and interpret scatter plots for bivariate measurement data to investigate patterns of	Constructing Scatterplots
ntent.8.SP.	association between two quantities. Describe patterns such as clustering, outliers, positive or	Interpreting Clusters and Outliers
\.1	negative association, linear association, and nonlinear association.	Exploring Association
CCSS.Math.C	Know that straight lines are widely used to model relationships between two quantitative variables.	Drawing Trend Lines
ntent.8.SP.	For scatter plots that suggest a linear association, informally fit a straight line, and informally assess	Using Equations to Represent Trend Lines
A.2	the model fit by judging the closeness of the data points to the line.	
CCSS.Math.C	Use the equation of a linear model to solve problems in the context of bivariate measurement data,	Using Equations to Represent Trend Lines
ntent.8.SP.	interpreting the slope and intercept. For example, in a linear model for a biology experiment,	Making Predictions
٩.3	interpret a slope of 1.5 cm/hr as meaning that an additional hour of sunlight each day is associated	
	with an additional 1.5 cm in mature plant height.	
CCSS.Math.C	Understand that patterns of association can also be seen in bivariate categorical data by displaying	Making Two-Way Tables
ontent.8.SP.	frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table	Interpreting Two-Way Tables
۸.4	summarizing data on two categorical variables collected from the same subjects. Use relative	
	frequencies calculated for rows or columns to describe possible association between the two	
	variables. For example, collect data from students in your class on whether or not they have a curfew	
	on school nights and whether or not they have assigned chores at home. Is there evidence that those	
	who have a curfew also tend to have chores?	