Content Area: Mathematics

UNIT Title/Focus DRIVING	Linear Equations / Expressions and Equations TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks) Sept-Nov / 12 Weeks Sept-May / 34 Weeks (Study Island Rotations) How will you write, solve, and/or interpret multi-step equations, with and without determining the number of solutions? How will you write, solve and/or interpret a system of linear equations?							
QUESTION(S)	now will you write, solve and/or interpret a system of linear equations?							
CONTENT VOCABULARY	·	Cube Root; Distributive Property; Identity (Infinitely Many Real Solutions); Linear Equation; No Real Solutions; One Real Solution; Perfect Cube; cientific Notation; Systems of Linear Equations.						
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES ASSESSMENT RESOURCES						
Linear Equations / Solve Linear	A1.1.2.1.1 Write, solve, and/or	Students will be able to write, solve, a equation.	nd/or apply a linear	Repetition/practice Frequent checks for	Warm-up Openers Study Island			
Equations	apply a linear equation (including problem situations). A1.1.2.1.3 Interpret solutions to problems in the context of the problem situation. Note: Linear equations only. A1.1.2.1.2 Use and/or identify an algebraic property to justify any step in an equation solving process. Note: Linear equations only.			understanding Quizzes In-Class Assignments "Anchor" Flashcards / End of Year "Anchors" Test "Vocabulary" Flashcards / frequent Vocabulary Quizzes DI Activities	Calculator Textbook "Notes" Handouts Worksheets "Peers" helping "Peers"			
	M08.B-E.3.1.1 Write and identify linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler							

Content Area: Mathematics

UNIT Title/Focus	Linear Equations / Expr	Sept-Nov / 12 Weeks Sept-May / 34 Weeks (Stu	ept-Nov / 12 Weeks ept-May / 34 Weeks (Study Island Rotations)			
DRIVING QUESTION(S)	How will you write, solve, and/or interpret multi-step equations, with and without determining the number of solutions? How will you write, solve and/or interpret a system of linear equations? Cube Root; Distributive Property; Identity (Infinitely Many Real Solutions); Linear Equation; No Real Solutions; One Real Solution; Perfect Cube; Scientific Notation; Systems of Linear Equations.					
CONTENT VOCABULARY						
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES		
Exponential Expressions / Square and Cube Roots	forms until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers). M08.B-E.3.1.2 Solve linear equations that have rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. M08.B-E.1.1.1 Apply one or more properties of integer exponents to generate equivalent numerical expressions without a calculator (with final answers expressed in exponential form with positive exponents). Properties will be provided.	Students will be able to apply one or integer exponents; and use square ro to represent solutions to equations.				

Content Area: Mathematics

UNIT Title/Focus	Linear Equations / Expr	essions and Equations	Sept-Nov / 12 Weeks Sept-May / 34 Weeks (Study Island Rotations)				
DRIVING QUESTION(S)	How will you write, solve, and/or interpret multi-step equations, with and without determining the number of solutions? How will you write, solve and/or interpret a system of linear equations?						
CONTENT VOCABULARY	Cube Root; Distributive Property; Identity (Infinitely Many Real Solutions); Linear Equation; No Real Solutions; One Real Solution; Perfect Cube Scientific Notation; Systems of Linear Equations.						
TOPIC	ELIGIBLE CONTENT/ STANDARDS	ORIECTIVES			RESOURCES		
Scientific Notation	W08.B-E.1.1.2 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 perfect squares (up to and including 12^2) and cube roots of perfect cubes (up to and including 5^3) without a calculator. W08.B-E.1.1.3 Estimate very large or very small quantities by using numbers expressed in the form of a single digit times an integer power of 10 and express how many times larger or smaller one number is than another.	Students will be able to perform or expressed in scientific notation and without using a calculator.					

Content Area: Mathematics

UNIT Title/Focus	Linear Equations / Expr	ressions and Equations TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks) Sept-Nov / 12 Weeks Sept-May / 34 Weeks (Study Island Rotation			ıdy Island Rotations)	
DRIVING QUESTION(S)	How will you write, solve, and/or interpret multi-step equations, with and without determining the number of solutions? How will you write, solve and/or interpret a system of linear equations? Cube Root; Distributive Property; Identity (Infinitely Many Real Solutions); Linear Equation; No Real Solutions; One Real Solution; Perfect Cube Scientific Notation; Systems of Linear Equations.					
CONTENT VOCABULARY						
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES		ASSESSMENT	RESOURCES	
	M08.B-E.1.1.4					
	Perform operations with numbers expressed in					
	scientific notation,					
	including problems					
	where both decimal and					
	scientific notation are					
	used. Express answers					
	in scientific notation and choose units of					
	appropriate size 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 (e.g.,					
	interpret 4.7EE9					
	displayed on a					
	calculator as 4.7×10^{9}).					
ystems of Linear		Students will be able to write, and/or	solve, and/or interpret a			
quations	A1.1.2.2.1	system of linear equations.				
•	Write and/or solve a	· '				
	system of linear					
	equations (including					
	problem situations)					

Content Area: Mathematics

JNIT Title/Focus	How will you write, solve, and/or interpret multi-step equations, with and without determining the number of solutions? How will you write, solve and/or interpret a system of linear equations? Cube Root; Distributive Property; Identity (Infinitely Many Real Solutions); Linear Equation; No Real Solutions; One Real Solution; Perfect Cube; Scientific Notation; Systems of Linear Equations					
DRIVING QUESTION(S)						
CONTENT VOCABULARY						
TOPIC	ELIGIBLE CONTENT/ STANDARDS	ORIECTIVES		ASSESSMENT	RESOURCES	
	using graphing,					
	substitution, and/or					
	elimination.					
	Note: Limit systems to					
	two linear equations. A1.1.2.2.2					
	Interpret solutions to					
	problems in the context					
	of the problem					
	situation.					
	Note: Limit systems to					
	two linear equations.					
	M08.B-E.3.1.3					
	Interpret solutions to a					
	system of two linear					
	equations in two					
	variables as points of					
	intersection of their					
	graphs because points					
	of intersection satisfy both equations					
	simultaneously.					
	M08.B-E.3.1.4					
	Solve systems of two					
	linear equations in two					
	variables algebraically					
	and estimate solutions					
	by graphing the					
	equations. Solve simple					
	cases by inspection.					
	M08.B-E.3.1.5					

Content Area: Mathematics

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DRIVING QUESTION(S)	Cube Root; Distributive Property; Identity (Infinitely Many Real Solutions); Linear Equation; No Real Solutions; One Real Solution; Perfect Cube;					
CONTENT VOCABULARY						
TOPIC	ELIGIBLE CONTENT/ STANDARDS	ASSESSMENT	RESOURCES			
	Solve real-world and mathematical problems leading to two linear					
	equations in two variables.					