UNIT Title/Focus	Functions		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	Sept-Nov / 12 Weeks Sept-May / 34 Weeks (Study Island Rotations)	
DRIVING QUESTION(S)	How will you use the rate of change/slope-intercept form to determine, analyze, and graph linear functions?				
CONTENT VOCABULARY	Correlation; Domain; Function; Line of Best Fit; Linear; Linear Function; Linear Relationship; Non-Linear; Range; Relation; Scatter Plot.				
ΤΟΡΙϹ	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES		ASSESSMENT	RESOURCES
Patterns	A1.2.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.	Students will be able to analyze data a pattern algebraically and/or graphical	and represent the ly.	Repetition/practice Frequent checks for understanding Quizzes In-Class Assignments "Anchor" Flashcards / End of Year "Anchors"	Warm-up Openers Study Island Calculator Textbook "Notes" Handouts Worksheets "Peers" helping
Relations and Functions/Domain and Range	 A1.2.1.1.2 Determine whether a relation is a function, given a set of points or a graph. A1.2.1.1.3 Identify the domain or range of a relation (may be presented as ordered pairs, a graph, or a table). 	Students will be able to determine wh function, and identify the domain and relation.	hether the relation is a l/or the range of a	Test "Vocabulary" Flashcards / frequent Vocabulary Quizzes DI Activities	"Peers"
Linear vs. Nonlinear Functions	M08.B-F.1.1.3 Interpret the equation $y = mx + b$ as defining a linear function whose graph is a straight line;	Students will be able to write, solve, i equation y = mx +b (slope-intercept fo function whose graph is a straight line	nterpret, and graph the orm) as defining a linear e.		

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	give examples of functions that are not linear. M08.B-F.2.1.2 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch or determine a graph that exhibits the qualitative features of a function that has been described verbally.					
Linear Functions/Linear Relationships	A1.2.1.2.2 Translate from one representation of a linear function to another (i.e., graph, table, and equation). A1.2.1.2.1 Create, interpret, and/or use the equation, graph, or table of a linear	Students will be able to translate from a linear function to another, determin rate of change using either the "slope the run".	n one representation of hing and interpreting the formula" or "rise over			

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	Nunction. M08.B-F.2.1.1 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.					

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