Unit D - Exploring Functions

Overview

This unit explores functions, which are expressed as expressions, tables and graphs. Students review the properties of equality and inequality so that they are able to manipulate equations and inequalities to solve for missing inputs and outputs. Students review the coordinate plane, graphing points, and linear functions.

21st Century Capacities: Analyzing

Stage 1 - Desired Results		
ESTABLISHED GOALS/ STANDARDS	Transfer:	
MP1 Make sense sense of problems and persevere in	Students will be able to independently use their learning in new situations to	
solving them MP2 Reason abstractly and quantitatively	1. Manipulate equations/expressions or objects to create order and establish relationships.	
MP3 Construct viable arguments and critique the reasoning of othersMP4 Model with Mathematics	 Represent and interpret patterns in numbers, data and objects. (Analyzing) Letification in the second second	
	3. Justify reasoning using clear and appropriate mathematical language.	
CCSS.MATH.CONTENT.HSA.SSE.A.1 Interpret expressions that represent a quantity in terms of its	UNDERSTANDINGS: Students will understand that:	ESSENTIAL QUESTIONS: Students will explore & address these recurring
context. CCSS.MATH.CONTENT.HSA.SSE.A.1.A Interpret parts of an expression, such as terms, factors, and	1. Mathematicians identify relevant tools, strategies, relationships, and/or information in order to draw conclusions.	<i>questions:</i> A. How do expressions relate to tables and graphs?
coefficients. CCSS.MATH.CONTENT.HSA.SSE.A.1.B Interpret complicated expressions by viewing one or more of their	2. Mathematicians apply the mathematics they know to solve problems occurring in everyday life.	B. How can I use symbols of inequality or equality to model relationships?C. How can I use math to make decisions?
parts as a single entity. CCSS.MATH.CONTENT.HSA.CED.A.1 Create	 Mathematicians create or use models to examine, describe, solve and/or make 	
solve problems. CCSS.MATH.CONTENT.HSA.CED.A.2 Create	4. Mathematicians use models to represent and make meaning of quantitative	
equations in two or more variables to represent	relationships.	