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The Design Recipe

Code.org Computer Science in Algebra

Description: You are filling your swimming pool with water. The pool holds 15,000 gallons of water and you can put in 1,000 gallons of water per hour. When you start filling the pool it already has 6,000 gallons of water in it from last year.

Contract and Purpose Statement

Every contract has three parts...

pool : function name

domain

range

what does the function do?

Examples

Write some examples for your function in action...

Example: _	pool(<u> </u>	
	function name	input(s)	what the function produces
Example: _	pool($3_{(a)} =$	what the function produces
Example:	pool (input(s) 6.5) =	what the function produces
p	function name	input(s)	what the function produces

Definition

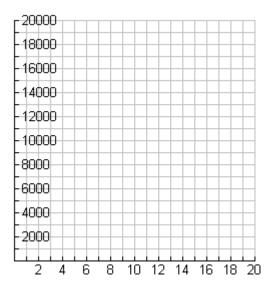
Write the definition, giving variable names to all your input values

Define: _______ pool____ (_______) = _________ what the function does with those variables

- E. What is the constant rate of change in this situation? Why?
- F. Set up a table for this situation

Hours	Gallons

G. Graph this situation. Label the axes correctly. Write a function that models the data.



Identify the y – intercept. What does it mean in the context of this situation?

Identify the x – intercept. What does it mean in the context of this situation?

What is the domain and range of this situation? Why?