Magic Vase

Lesson Plan

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The Task

You're planting in the garden and uncover a vase buried in the soil. After cleaning the vase, you place it on your bedside table. You notice something shiny in the vase before you go to sleep. You pull out a handful of pennies and count them up. There are 6 pennies in the vase. When you check the vase at the end of the second day, you count 12 pennies. At the end of Day 3, you count 18 pennies. How many pennies will be in the vase after 10 days? 25 days? 100 days? Can you come up with a rule to find the number of pennies in the vase on any day?

Materials	Facilitating Task
• The task	 Read task and clarify as needed
 Vase (available to model task) 	• Give individual think time before
• Coins/counters (available for	sharing with a partner
students)	 Small groups (3-5 students)
 cm grid paper (available for 	o Compare and come to
students)	consensus on days 10, 25, 100
• Newsprint (for groups to record	o Record you rule on poster
rule)	Whole group
• Poster paper (for recording class	0 Record class data in 3 column
data table)	table for days 0-10, 25, 100
 Poster inch grid paper (for 	o Record class data on graph for
graphing class data)	days 0-10
	o Share out rules and connect
	words to symbolic notation
	o Discuss connections between
	representations - story
	context, table, graphs, verbal
	rule, symbolic rule