

Names: _____ Date: _____

Rock Candy Worksheet

Rock candy is simply large sugar crystals, but can you make different shapes and/or sizes of crystals by incorporating different additives?

Day 1 Predictions: What do you think will happen to the sugar crystals when the following additives are included when making the candy?

Additive	More Growth	Less Growth	Same
Food coloring			
JELL-O			
Kool-Aid powder			
Cinnamon extract			
Iodized salt			
Powdered sugar			
Brown sugar			
Milk			
Apple juice			

Day 2 Data/Comparison Observations: Record how each additive affected the growth of the sugar crystals compared to one with no additive.

Additive	More Growth	Less Growth	Same
Food coloring			
JELL-O			
Kool-Aid powder			
Cinnamon extract			
Iodized salt			
Powdered sugar			
Brown sugar			
Milk			
Apple juice			

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Days 1 and 2 Measurements and Calculations

Our group's additive: _____

Dowel Rod Mass (g)	Dowel Rod w/ Crystals (g)	Mason Jar Mass (g)	Mason Jar w/ Crystals (g)
Mass Crystals on Dowel Rod (g)		Mass Crystals in Mason Jar (g)	
Total Mass of Crystals (g)			

Day 2 Summary of Class Data

Additive	Mass of Crystals (g)
Food coloring	
JELL-O	
Kool-Aid powder	
Cinnamon extract	
Iodized salt	
Powdered sugar	
Brown sugar	
Milk	
Apple juice	

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Day 2: Research and Analysis: Explain why each additive affected crystallization the way it did.

Additive	Reason for crystallization effects
Food coloring	
JELL-O	
Kool-Aid powder	
Cinnamon extract	
Iodized salt	
Powdered sugar	
Brown sugar	
Milk	
Apple juice	