

Student Investigation Sheet

Go With the Flow

In this activity, you and your group will drip water over sugar cubes to investigate the erosion of land over time by weather, including rain and snowmelt.

Materials:

Materials for each group:

- 24 sugar cubes (in 2 pre-formed bricks of 12 cubes each)
- eye dropper
- cup
- water
- plastic tray or foam plate with a flat bottom
- rulers
- paper towels
- graph paper
- 1 overhead transparency sheet, pre-printed with a graph paper grid (optional)
- writing paper or science notebook for recording ideas



Key Question

noy queenen		
What is the question you want to answer?		
	Directions: Write the question for the investigation. The question should be specific and investigable.	
	 Key Components Is specific (one general thought, does not combine two or more questions) Is able to be investigated 	

Hypothesis

	otnesis
What do you predict will be the result of the investigation	1?
	Directions: Develop a claim about what you think is going to happen.
	 Key Components Expresses a cause-and-effect relationship Is testable Incorporates prior knowledge



Plan



Data

What evidence was gathered during the investigation	1?
What evidence was gathered during the investigation	Directions: Record all of the evidence that has been collected. Use graphic organizers, tables, and graphs when appropriate. Key Components Data (from an investigation and/or other sources, such as observations, reading material, archived data, etc.) Appropriate (data apply directly to the question) Sufficient (uses enough data to completely answer the question and determine a finding on the hypothesis)



Conclusion

What did you loave from this investigation?		
What did you learn from this investigation?		
	Directions: Develop a conclusion for your investigation. The conclusion should contain clear thoughts and proper vocabulary. This section focuses on the answer to your question. It should support or refute the hypothesis by using logical reasoning to Link the bunchlosis to the date	



	Analysis and Conclusions				
1.	Discuss how the landforms you created are like landforms that have resulted from erosion, such as the canyons in the Trans-Pecos region of Texas.				
2.	Discuss the ways that your models were similar to real erosion by water and ways in which it was different.				
3.	What sort of landform is created by water flowing down a straight riverbed? What about a meandering one – what happens to the respective shores of the river?				
4.	What does erosion by water have to do with the formation and growth of stalactites and stalagmites in caves? Why wouldn't you expect to see these formations in your experiment?				