6th Science 5/30/19

EQ: How do different variables affect erosion and deposition on a stream table?

CW: Activity 9.1

HW: No HW

Agenda

1) Writing Prompt
2) Activity 9.1

Open Ended Question

Write silently for three minutes: Use evidence from the article on pg. 70 to explain how flooding can be a good thing.

Please enter your answer here.

Erosion

The movement of soil, rock, or dissolved material from one location to another

Deposition

The geological process in which sediments, soil and rocks are added to a landform or land mass.

Weathering

When rock is broken into smaller pieces by colliding with other objects

Deposition describes the material that has been eroded and left in another place.

- Sand at the mouth of the river on the stream table is deposition. It was eroded and moved to the bottom of the stream table and left there. This material is called sediment.

- Rocks in the video were eroded and then deposited farther down the stream table.

- Deposition is another process that can a effect rock.

Scientific Principles

4. Earth material constantly is changed and shaped by various processes: weathering, erosion, and deposition.

5. Small changes over a long period of time can have big effects.

Discussion

- Do you think weathering, erosion, and deposition happen everywhere water exists?
- Do you think flowing water always creates the same landforms? Explain.
- In your Park Guides, do all of the parks have the same kind of landforms?

What can be changed in the stream table to produce a different amount of erosion or deposition?

Collaborate!

What can be changed in the stream table to produce a

Variables to test for

Group 1 and 2

- Slope of the table

Group 3 and 4

- How fast the water is moving

Group 5 and 6

- Shape of the river

Group 7 and 8

- Different materials

B. Place the stream table so that the hole is over the bucket. The bucket will catch the water and sand.

C. Add the sand to your stream table. Use your finger to create a riverbed.

D. If you are adding other materials to your model, do it now.

E. When your model is ready, have the teacher check it before you add water.

F. After your model is checked, add the water and observe what happens.

G. Describe what happens by recording your observations on the activity sheet.

H. When you have finished adding the water, put the wet sand in the proper container. Do not pour the water in your bucket down the drain. Your teacher w tell you where to put it.

I. For the second trial, set up your stream table repeating Steps B–G. Make sure it looks the same way it did for your first investigation except for the change in you variable. Be sure to use dry sand.

Activity 9.1 pg. 71 We will investigate how different variables can affect the processes of erosion and deposition on a stream table.

Procedure

Make changes in the setup of the stream table. You will conduct two trials to see how changing the setup of the stream table affects erosion and deposition.

1. Discuss how you are going to design your investigation with your group. Complete the table.

What variable are you going to change in your model?	
What are the two values for the variable you are changing?	Value 1: Value 2:
How do you think the change in your variable will affect erosion and deposition?	Prediction:

Data Collection

Collect data on pgs. 72, 73, and 74.
You may also make a time lapse recording - Only one iPad per group.
Be very careful not to get iPad wet/dirty.
Expectations: Quiet in halls, on task, use materials appropriately, respect each other, work together.