

Erosion

in a **FLUB**



Cursive &
CRAYONS

Erosion in a Tub

Teachers Need to Know:

We are making a model of how erosion and weathering impact earth's landforms.

Estimated time: 60 min.

Materials needed

- Enough clear tubs for each group
- Sand, dirt, sticks, rocks
- Cup
- Water
- Stopwatch
- Ice cubes
- Straws (wind erosion)
- Lego figurine or plastic animal

How it works:

Students will work in a group of about 3 students to construct a landform model.

Students will fill out their erosion lab sheet either alone, or as a group.

Once the students have completed their model, the teacher will inspect, ask questions regarding the landforms, predictions, etc. to get students thinking.

Standard:

4-ESS2-1. Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.

-Could include angle of slope in the downhill movement of water, amount of vegetation, speed of wind, relative rate of deposition, cycles of freezing and thawing of water, cycles of heating and cooling, and volume of water flow.

Name: _____

Number: _____

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Directions: With your group, place the “earth’s crust inside the container. Next, create a landform (mountain, volcano, beach, cliff, valley, canyon, sand dune, etc.). Complete this lab sheet as you go along. Read each step CAREFULLY!

Before You Begin

1. What landform will you create? _____
2. How will weathering and erosion impact your landform?

3. Measure the tallest height of your landform. _____ inches
4. Measure the width of your landform. _____ inches
5. Draw a sketch of your landform BEFORE weathering and erosion has impacted it.

Name: _____

Number: _____

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Wind

6. How long did you have to apply wind for so you saw weathering occur? _____sec./ min.

7. How did wind impact your landform? Be descriptive.

Ice (glacier)

8. Where did you apply the ice on your landform? _____

9. How did ice impact your landform? Be descriptive.

Animal/ People

10. Where did you apply the animal/person contact to your landform?

11. How did animals/people impact your landform? Be descriptive.

Name: _____

Number: _____

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Water

12. Where did you apply water to your landform? _____

13. How long did the water take to flow through the landform until it stopped moving?

_____sec./ min.

14. How did water impact your landform? Be descriptive.

14. Where did the water deposit the sediments? Be descriptive.

15. Draw a sketch of your landform AFTER weathering and erosion has impacted it.

After the Lab



Thank you

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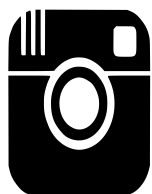
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