

Name: _____

Weathering and Erosion Science Lab Activity

Materials (for each pair):

- 2- 2 graham cracker rectangles (connected)
- 2 Styrofoam plates
- 1 tsp. frosting
- Plastic knife
- Eyedropper
- Cup of water
- Rock ice cube
- Graham cracker crumbs
- 2 straws

Directions for Part I:

1. Use the knife to spread frosting on the edge of the paper plate. Then angle the cracker on top of the frosting with the perforation positioned vertically as shown. (Figure 1)

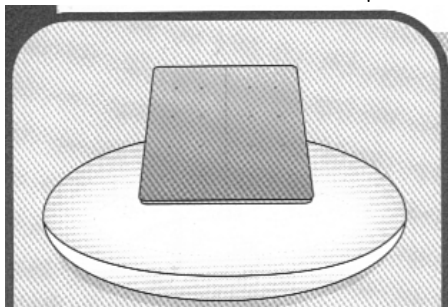


Figure 1

2. Fill the eyedropper with water. Hold the dropper above the perforation between the two crackers. Squeeze the water so that it runs down the perforation as shown. (Figure 2)

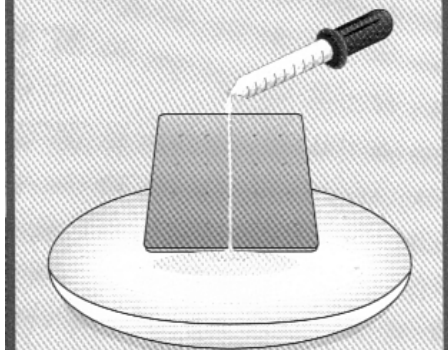


Figure 2

3. Observe the cracker and the water in the bottom of the plate. Record your results: _____

4. Repeat this process over another area of the cracker. (Figure 3)

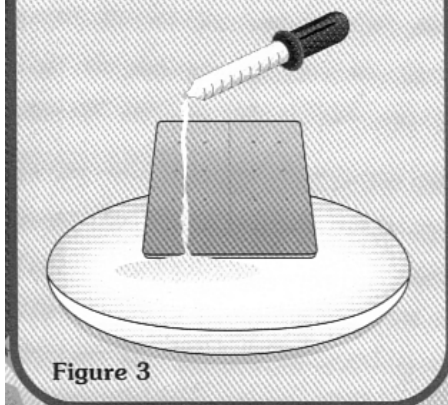


Figure 3

5. Continue dropping water on the cracker, alternating between the perforation and the other area of the cracker.

6. Observe the condition of the cracker and the water in the bottom of the plate. Record your results.

Weathering and Erosion Science Lab Activity (Continued)

Directions for Part 2:

7. Remove the graham cracker and use the other graham cracker. Angle the cracker on top of the frosting with the perforation positioned vertically as shown. (Figure 1)
8. Place the rock ice cube at the top of the graham cracker and let it slide down. Repeat this step 6-7 times. What happened? What does the surface of the graham cracker look like? Record your results.

Directions for Part 3:

9. Take the plate with graham cracker crumbs and spread the graham cracker crumbs out evenly.
10. With your partner, take the straw and blow on the graham crackers. Make sure the air is going in the same direction. What happened? Record your results:

Science Lab Questions:

1. In the first activity, what did the graham cracker represent? _____
2. What did the water in the dropper represent? _____
3. What slow Earth changing processes were being demonstrated? Explain how each were demonstrated? _____

4. In the second activity, what did the ice cube with a rock represent? _____
5. What slow Earth changing process was demonstrated? _____
How? _____
6. In the third activity, what did the graham cracker crumbs represent? _____
7. What slow Earth changing process was being demonstrated? _____
How? _____