

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Bill Nye the Science Guy**  
**Erosion**

1. Water, ice, wind, \_\_\_\_\_ and chemicals are constantly crumbling mountains, flattening hills, widening \_\_\_\_\_ and deepening canyons.



2. Erosion takes \_\_\_\_\_.

3. When liquid water turns to solid ice, it (expands or shrinks).

4. When water gets between the cracks of rocks and freezes, the rocks \_\_\_\_\_ . This is another cause of erosion.

5. When wind blows \_\_\_\_\_ against a mountain, the mountain erodes and the peaks become more rounded.

6. Water can wear away rock to form a \_\_\_\_\_.

7. Rocks, plants, and \_\_\_\_\_ can help prevent erosion by keeping the material underneath it in place.

8. If soft rock is underneath harder rock, the softer rock erodes away first, leaving an \_\_\_\_\_.

9. Erosion is the \_\_\_\_\_ wearing away of the Earth's surface.

10. How are sandy beaches made? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. A \_\_\_\_\_ can both speed up erosion and slow it down.

12. Freezing water, chemicals, and plants called \_\_\_\_\_, are all eating away at rocks.

13. Erosion is a \_\_\_\_\_ process.

14. What happened to the ball of clay that was put in the freezer?

---

---

15. Which of the following is NOT a cause of erosion?

- a. water
- b. sun
- c. wind
- d. ice

16. How are mushroom rocks formed?

- a. ocean waves hit the bottom of rocks causing only the bottom of the rock to wear away.
- b. wind picks up sand that hits the bottom of rocks causing only the bottom of the rock to wear away.
- c. wind and water erosion

17. What is erosion?

- a. dropping sediment that was been carried by wind or water from one location to another
- b. tiny pieces of rock
- c. the process through which rocks and soils are worn away by wind, water, and ice



Name: ANSWER KEY Date: \_\_\_\_\_

## Bill Nye the Science Guy Erosion

1. Water, ice, wind, **SAND** and chemicals are constantly crumbling mountains, flattening hills, widening **VALLEYS** and deepening canyons.

2. Erosion takes **TIME**.

3. When liquid water turns to solid ice, it (**EXPANDS** or shrinks).

4. When water gets between the cracks of rocks and freezes, the rocks **SPLIT OPEN**. This is another cause of erosion.

5. When wind blows **SAND** against a mountain, the mountain erodes and the peaks become more rounded.

6. Water can wear away rock to form a **CANYON**.

7. Rocks, plants, and **TREES** can help prevent erosion by keeping the material underneath it in place.

8. If soft rock is underneath harder rock, the softer rock erodes away first, leaving an **ARCH**.

9. Erosion is the **SLOW** wearing away of the Earth's surface.

10. How are sandy beaches made? **THOUSANDS OF YEARS OF OCEAN WAVES POUNDING AND WEARING AWAY ROCKS. THE ROCKS BREAK DOWN TO FORM SAND.**

11. A **TREE** can both speed up erosion and slow it down.

12. Freezing water, chemicals, and plants called **LICHEN**, are all eating away at rocks.

13. Erosion is a **NEVER ENDING** process.



14. What happened to the ball of clay that was put in the freezer? **IT GOT CRACKS FROM EXPANDING FROZEN WATER, JUST LIKE ROCKS.**

15. Which of the following is NOT a cause of erosion?

- a. water
- b. sun
- c. wind
- d. ice

16. How are mushroom rocks formed?

- a. ocean waves hit the bottom of rocks causing only the bottom of the rock to wear away.
- b. wind picks up sand that hits the bottom of rocks causing only the bottom of the rock to wear away.
- c. wind and water erosion

17. What is erosion?

- a. dropping sediment that was been carried by wind or water from one location to another
- b. tiny pieces of rock
- c. the process through which rocks and soils are worn away by wind, water, and ice

