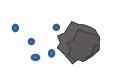
Physical (Mechanical)	Chemical
1.	1. Caused by:
2 Caused by:	2 Caused by:
3 Caused by:	









Physical vs. Chemical Weathering Practice

Weathering includes physical (mechanical) weathering and chemical weathering. Physical weathering is any process that breaks up rock without changing its chemical composition. Chemical weathering is any process in which water, air, or other substances react with the minerals in the rock and change the chemical composition of the rock.

Decide if the following descriptions are examples of mechanical weathering or chemical weathering. Write the word "physical" or "chemical" in the blank at the left.

1. Moss growing on the surface of rocks, producing mini cracks in the rocks	
2. The wedging of tree roots along natural joints in granite	
3. Limestone dissolved by acid rain	
4. The oxidation of minerals that contain iron	
5. Animal burrows dug in rock that let in water and air	
6. Repeated freezing and thawing of water that cracks rock	
7. The action of water, salt, and air on car fenders and panels	
8. Formation of potholes in streets during severe winters	
9. Lifted sections of sidewalk along tree-lined streets	
10. A small rock falling from a cliff	
11. Feldspar mixing with acidic groundwater and producing clay minerals	
12. Tree roots cracking the concrete foundation of a house	

Name: ______

Date: _____

Exit Slip

This is a statue of Sophia. Doesn't she look thrilled?!

If you poured acid on this statue, would you be weathering it chemically or physically?

If you took a nail file and filed away at the statue, would you be weathering it chemically or physically?

If you took a hammer and smashed this statue, would you be weathering it chemically or physically?

If you smashed the statue with the hammer, you have weathered it. Now you carry those pieces of statue to the dump. What process is this?

List three things that can weather a rock physically:

- 1. 2.
- z. 3.

List the two things that can weather a rock chemically:

- 1.
- 2.

