

Weathering Walk

Name _____ Class _____

PURPOSE:

We will be taking a walk around our school to observe as many different types of mechanical and chemical weathering as we can. You are required to record at least 10 different observations for a passing grade. (An "A" requires 20 observations.) Be sure to identify the type of weathering as well as mechanical or chemical.

OBSERVATIONS:

#	DESCRIPTION	Type, such as frost action	CHEMICAL OR MECHANICAL?
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			

SUMMARY QUESTIONS:

1. Count the number of mechanical and chemical weathering observations you've made. How many were Mechanical? _____ Chemical? _____
2. Did you observe more mechanical or chemical weathering observations?
3. Explain your answer for #2. (Hint: Think about the role of climate in the weathering process. Remember: Hotter and wetter climates produce more chemical weathering and drier and cooler climates produce more mechanical weathering.)
4. What type of weathering do you think caused the formation of most of the soil around our school? Why do you think this?
5. How might animals have contributed to the weathering of rock around our school?

APPLICATION QUESTIONS:

6. Let's say you are sanding a rough board to make shelves for your bedroom. What type of weathering would this be? How do you know?
7. You are looking at an old statue. It has lots of acid rain damage. Lichens grow on its surface. Where do you think this statue has been for the last 50 years? Describe the climate.