Activity 6.6

Chemical Weathering

Materials

- chalk 
- 2 beakers 
- vinegar 
- safety goggles 
- masking tape 
- spoon 

Procedure

1. Use the masking tape to label the beakers A and B.
2. Place two whole pieces of chalk into Beaker A.
3. Break up two pieces of chalk into small pieces. Place the pieces of chalk into Beaker B.
4. Pour vinegar into each beaker so that all of the chalk is covered.
5. Start the stopwatch and observe what happens.
6. After 5 minutes, use the spoon to raise and observe the chalk in both beakers.
7. Repeat Step 6 after 30 minutes and after 60 minutes.

Observations

In the table below, describe the chalk in each beaker.

Time (min)	Chalk in Beaker A	Chalk in Beaker B
3s		
20s		
50s		

Analyze and Interpret

1. What caused the changes you observed in the chalk?

2. In which beaker was the chalk broken down the most? Why?

3. How are the changes you observed similar to the chemical weathering of limestone in nature?