Chemical Weathering

**Materials**: vinegar, chalk, water, beakers, clock/stopwatch

Question: How do you think acid will impact the erosion of rock (the chalk?)

Write a hypothesis as an IF/THEN statement to answer the above question.

**Procedure:**

1. Put enough vinegar in one beaker to completely cover a piece of chalk.

2. Put enough water in the other beaker to completely cover a piece of chalk.

3. Place the chalk in each of the beakers.

4. Observe at 2, 5, and 10 minute intervals. Complete the chart below.

**Data:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2 minutes | 5 minutes | 10 minutes |
| Chalk in WATER |  |  |  |
| Chalk in ACID |  |  |  |

**Analyze and Conclude:**

1. What is the independent variable?

What is the dependent variable?

2. Based on your observations, compare the affects of the water and the vinegar on the chalk.