

Name _____

Weathering Rates

Surface Area of an Alka Seltzer Tablet

Introduction: In this lab, you will determine how surface area affect the rate at which materials weather.

Problem: What will weather faster, a broken alka seltzer or a whole one?

Hypothesis:

Procedure:

1. Drop the whole alka-seltzer tablet into the beaker and time how fast it dissolves
2. Drop in the crushed alka-seltzer tablet into the beaker and time how fast it dissolves

Materials: Alka-Seltzer, beaker, water, mortar, pestle

Observations:

Trial	Time to Dissolve
Whole Tablet	
Crushed Tablet	

Questions:

1. As surface area increases, weathering rate _____
2. What happened to the surface area of the alka seltzer when the tablet was broken?

3. What is the difference between weathering and erosion?

4. Graph the following:

