

**Activity One**

1. What is the effect of time on the rate of weathering? \_\_\_\_\_  
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2. How did the remaining mass of the marble chips in the first part of the activity change over time? \_\_\_\_\_
3. What do you think would happen if you continued shaking the marble chips for 24 hours or longer? \_\_\_\_\_
4. What percentage of the granite still remained after 5 minutes of shaking? \_\_\_\_\_
5. What percentage of the halite still remained after 5 minutes of shaking? \_\_\_\_\_
6. Explain the relationship between the hardness of a rock and weathering as observed in the second part of the activity. \_\_\_\_\_  
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7. What conclusions can you make between the results of this activity and the natural process of weathering that takes place in nature? \_\_\_\_\_  
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**Activity Two**

1. What changes did you observe in each sample? \_\_\_\_\_  
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How does a weak acid affect rocks in nature? \_\_\_\_\_  
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2. What evidence did you observe to support the idea that a chemical change has occurred? \_\_\_\_\_
3. Describe the difference between physical and chemical weathering.  
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4. Based on your results, what are some of the variables that affect the rate of weathering of rocks? \_\_\_\_\_
5. What effect do these processes play in the formation of soil?  
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