

## **Investigate Lab** Test a Grape Juice Indicator

### **Procedure**



1. Read the procedure and safety information, and complete the lab form.
2. Add one-half cup of **water** to each of two **small glasses**.
3. Add 1 tablespoon of **purple grape juice** to each glass.
4. To one glass, add 1 teaspoon of **baking soda**. Stir.
5. To the other glass, add 1 teaspoon of **white vinegar**.
6. Note the color after each addition in steps 3, 4, and 5.  
Record your observations in the table below.

### **Data and Observations**

	Glass 1 observations	Glass 2 observations
Purple grape juice		
Baking soda		
White vinegar		

### **Analysis**

1. **Describe** What happened when baking soda was added?

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2. **Explain** Did the color change when you added vinegar? Why or why not?

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## Mini Lab Observe Acid Relief

### Procedure



**WARNING:** *Do not eat antacid tablets.*

1. Read the procedure and safety information, and complete the lab form.
2. Add 150 mL of water to a 250-mL beaker.
3. Add three drops 1M HCl and 12 drops of universal indicator.
4. Observe the color of the solution.
5. Add an antacid tablet and observe for 15 minutes.

### Analysis

1. Describe any changes that took place in the solution.

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2. Based on the color of the mixture, how would you classify the HCl solution in step 3? How would you classify the solution at the end of step 5?

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3. Conclude why the tablet is used to treat acid indigestion.

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