

Name \_\_\_\_\_ Date \_\_\_\_\_ Class Period \_\_\_\_\_

### Scientific Method Lab

Suppose you are the new manager of a restaurant. The customers have complained because the cookies you sell fall apart too quickly when they dunk them in milk. The procedure manual for your restaurant chain says that you're allowed to choose from among the three lowest-priced brands available in your area. You decide to conduct an experiment to decide which brand of cookies you should purchase.

**Hypothesis:** \_\_\_\_\_

\_\_\_\_\_

**Materials:**

1. Clothes pins	3. Paper cups	5. Cookies
2. Skewers	4. Clock	6. Milk

**Procedure:**

1. Fill four paper cups to the first line with milk
2. Using the clothes pins on the skewers, clip an OEO, Nilly, and Gingersnap cookie on each.
3. Put your restaurant cookie on a separate clothes pin.
4. Dunk your cookies in the milk and check them every 15 seconds. Record your observation and make a bar graph of your results.

**Analysis:**

1. Did all the cookies fall apart at the same time? \_\_\_\_\_
2. Which one lasted the longest? \_\_\_\_\_
3. Which type of cookie did you think would last the longest? \_\_\_\_\_
4. Which group was the control group? \_\_\_\_\_
5. Which groups were the experimental groups? \_\_\_\_\_
6. What was the independent variable in your experiment? \_\_\_\_\_
7. What was the dependent variable in your experiment? \_\_\_\_\_
8. What step of the scientific method is procedure number 4? \_\_\_\_\_

**Conclusion:** \_\_\_\_\_

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