

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

## **Scientific Inquiry**

### **Identifying Variables**

Kinds of \_\_\_\_\_

- \_\_\_\_\_ Variable – something that is \_\_\_\_\_ by the scientist
  - What is \_\_\_\_\_
  - What is \_\_\_\_\_
  - \_\_\_\_\_ on \_\_\_\_\_ - to see what may happen
- \_\_\_\_\_ Variable – something that might be \_\_\_\_\_ by the change in the \_\_\_\_\_ variable
  - What is \_\_\_\_\_
  - What is \_\_\_\_\_
  - The \_\_\_\_\_ collected during the \_\_\_\_\_
- \_\_\_\_\_ Variable – a \_\_\_\_\_ that is \_\_\_\_\_ changed
  - Also called \_\_\_\_\_
  - Allow for a “\_\_\_\_\_”

### **The Bread Experiment**

*Problem/Question*

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*Hypothesis*

The \_\_\_\_\_ is an educated \_\_\_\_\_ about the relationship between the independent and dependent \_\_\_\_\_.

*Independent Variable*

The \_\_\_\_\_, or manipulated variable, is a factor that's intentionally varied by the experimenter.

Bread Experiment Independent Variable

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*Dependent Variable*

The \_\_\_\_\_, or responding variable, is the factor that may change as a result of changes made in the independent variable.

Bread Experiment Dependent Variable

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*Control Group*

In a scientific experiment, the \_\_\_\_\_ is the group that serves as the standard of comparison.

The \_\_\_\_\_ group may be a "no treatment" or an "experimenter selected" group.

The \_\_\_\_\_ group is exposed to the same \_\_\_\_\_ as the \_\_\_\_\_ group, except for the variable being tested.

\_\_\_\_\_ experiments should have a control group.

Bread Experiment Control Group

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Bread Experiment Constants

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