

Experimental Design Worksheet
Scientific Method

Name _____
Block _____ Date _____

Definitions: Define the following words and concepts related to the scientific method.

1. Hypothesis: _____
2. Independent Variable: _____
3. Dependent Variable: _____
4. Control Group: _____
5. Experimental Groups: _____
6. Constants: _____
7. Trials: _____
8. Variables (use a dictionary if necessary): _____

Practice: Write a hypothesis for each of the statements and identify the variables, control group, and experimental group.

1. Cigarette smoking increases the risk of lung cancer.

Hypothesis: If _____, then _____

Independent Variable: _____ Dependent Variable: _____

Control Group: _____ Experimental Group: _____

2. Eating breakfast increases performance in school.

Hypothesis: If _____, then _____

Independent Variable: _____ Dependent Variable: _____

Control Group: _____ Experimental Group: _____

3. Hummingbirds are attracted to the color red.

Hypothesis: If _____, then _____

Independent Variable: _____ Dependent Variable: _____

Control Group: _____ Experimental Group: _____