

Experimental and Control Variable Homework

1. What are *experimental variables*? _____

2. What are *control variables*? _____

True/False:

3. _____ In an experiment, only the experimental variables should change. All other variables should stay the same.

4. _____ Control variables change throughout the experiment.

Scenarios:

5. Nohemi wants to know if eating bananas for breakfast makes people do well on quizzes. She knows her friends have quizzes in several different classes tomorrow. Some of her friends like to eat bananas with peanut butter, some like to eat them in an ice cream sundae, and some like to eat them plain. Some of her friends hate bananas. Moreover, she has friends that like to eat breakfast right before school and friends that get up 2 hours before school starts and eat.

Experimental Variables:

#1: _____

#2: _____

Control variables: (come up with at least TWO)

#1: _____

#2: _____

6. Mr. Bruno hypothesizes that "If I brush my teeth in the morning, then my breath will smell better during the day."

1) Is this a good hypothesis? Yes or No?

a. How do you know?

2) If Mr. Bruno were to test this hypothesis, what would his experimental variables be?

#1: _____

#2: _____

3) If Mr. Bruno were to test this hypothesis, what are two variables he should *control*?

#1: _____

#2: _____