

NAME: _____

DATE: _____

PERIOD: _____

VARIABLES WORKSHEET

*For each experiment, write down the independent variable (IV), dependent variable (DV), and control.
For some, identify the constants as well.*

1. Mr. Lane wanted to figure out what type of liquid worked best for growing beans. He watered one with coca-cola, one with lemonade, and one with just water. After one week, he measured how high they had grown.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____

2. Ms. Kalleres wanted to find out what fertilizer worked best for growing tulips. She put Miracle Grow on one, Scotts fertilizer on one, and no fertilizer on another.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____

3. Mr. Rowe wanted to see if eating apples would help him do better on his schoolwork. The first day, he didn't eat any apples. On day 2, he ate one apple; on day 3, he ate 2 apples; and on day 4, he ate 3 apples. Each day, he recorded the grades he got on his science work.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____

4. Mr. Gardner wanted to see if listening to music would make the basketball players make more baskets. On day one, he didn't play any music and counted how many baskets they could make in 10 minutes. On day 2, he played rap music and counted the baskets, and on day 3, he played classical music and counted the baskets.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____

5. Mr. Fleck wanted to see what kitchen cleaner worked best for cleaning his counters. He used Lysol, Clorox, Pinesol, and just water. For each cleaner, he put 5 milliliters of grape juice on the counter, sprayed the cleaner, and wiped it with one paper towel.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____

6. Mr. Eschaton wanted to find out what toothpaste made teeth the cleanest. Everyday he brushed his teeth with a different product and then took a plaque test to see how much plaque was left. He used Crest, Colgate, Close-up, and water.
- a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____
7. Mr. Hartshorn wanted to find out what shampoo made his hair the shiniest. Everyday he washed his hair with different shampoos and then rated how shiny his hair was, on a scale from 1-10. He used Pantene, Herbal Essences, L'Oreal, and just water.
- a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____
8. Ms. Honold wanted to see what battery lasted the longest. She put each battery into a clock and recorded the time that the clock stopped. She used Duracell, Energizer, Kroger brand, and EverReady.
- a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Constants: _____
9. Mr. Lee wanted to test how the mass of a paper airplane affected the distance it would fly. Paper clips were added before each test flight. As each paper clip was added, the plane was tested to determine how far it would fly.
- a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Control: _____
 - d. Constants: _____