

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. Katiana wanted to figure out what type of liquid worked best for growing beans. She watered one with Coca-Cola, one with lemonade, and one with just water. After one week, she measured how high they had grown.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Control Group: _____

2. Trevor wanted to find out what fertilizer worked best for growing marigolds. He put Miracle Grow on one, Scott's fertilizer on one, and no fertilizer on another.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Control Group: _____

3. Taylor wanted to see if eating apples would help her do better on her classwork. The first day, she didn't eat any apples. On day 2, she ate one apple; on day 3, she ate 2 apples; and on day 4, she ate 3 apples. Each day, she recorded the grades she got on her science work.
 - a. Independent Variable (IV): _____
 - b. Dependent Variable (DV): _____
 - c. Control Group: _____

4. CJ 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. Control Group: _____

5. Michael wanted to see what kitchen cleaner worked best for cleaning her counters. He used Lysol, Clorox, Pine-sol, 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. Control Group: _____
 - d. Constants: _____

6. Alex wanted to find out what toothpaste made teeth the cleanest. Every day she brushed her teeth with a different product and then took a plaque test to see how much plaque was left. She used Crest, Colgate, Close-up, and water.

- a. Independent Variable (IV): _____
- b. Dependent Variable (DV): _____
- c. Control Group: _____
- d. Constants: _____

7. Caelyn wanted to find out what shampoo made her hair the shiniest. Everyday she washed her hair with different shampoos and then rated how shiny her hair was, on a scale from 1-10. She used Pantene, Herbal Essences, L'Oreal, and just water.

- a. Independent Variable (IV): _____
- b. Dependent Variable (DV): _____
- c. Control Group: _____
- d. Constants: _____

8. Fredrick wanted to find out what soil works best for growing roses. He grew them in potting soil, clay, sand, and soil he found outside his yard. After one week, he measured their height and how many leaves they had.

- a. Independent Variable (IV): _____
- b. Dependent Variable (DV): _____
- c. Control Group: _____
- d. Constants: _____

9. Anna 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 Ever-Ready.

- a. Independent Variable (IV): _____
- b. Dependent Variable (DV): _____
- c. Control Group: _____
- Constants: _____

10. Darius 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 Group: _____
- d. Constants: _____