

Name: \_\_\_\_\_ Period: \_\_\_\_\_

### Experimental Variables

**Directions:** For the following experiments, define the independent variable/manipulated variable (IV), dependent variable/responding variable (DV), and 3 variables you would need to control (CV).

1. The number of flowers on different breeds of bushes in a greenhouse is recorded every week for two months.

IV \_\_\_\_\_

DV \_\_\_\_\_

CV1 \_\_\_\_\_

CV2 \_\_\_\_\_

CV3 \_\_\_\_\_

2. You give four sunflowers different watering with either pure water or different concentrations of salt solutions. After a two-week period, the height is measured.

IV \_\_\_\_\_

DV \_\_\_\_\_

CV1 \_\_\_\_\_

CV2 \_\_\_\_\_

CV3 \_\_\_\_\_

3. Three redwood trees are kept at different humidity levels inside a greenhouse for 12 weeks. One tree is left outside in normal conditions. Height of the trees is measured once a week.

IV \_\_\_\_\_

DV \_\_\_\_\_

CV1 \_\_\_\_\_

CV2 \_\_\_\_\_

CV3 \_\_\_\_\_

4. Pea plant clones are given different amounts of water for a three week period. First pea plant receives 400 milliliters. The second pea plant receives 200 milliliters. The third pea plant receives 100 milliliters. The fourth pea plant does not receive any extra water; the plant only receives water naturally. The height of the pea plants is recorded daily.

IV \_\_\_\_\_

DV \_\_\_\_\_

CV1 \_\_\_\_\_

CV2 \_\_\_\_\_

CV3 \_\_\_\_\_