

## Scientific Variables

Identify the dependent variable in each scenario.

| Scenario                                                                                                                                                                        |                                                                                     | Dependent |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| One chicken is injected with a growth hormone while another chicken is not injected. Both chickens are weighed after a year.                                                    |    |           |
| A bug repellent is sprayed on one arm the other arm is not sprayed. The number of bug bites is recorded after 2 hours.                                                          |    |           |
| Javier sleeps 9 hours the night before his science exam. His twin sister has the same exam and sleeps 6 hours the night before the test. Afterwards, they compare their scores. |    |           |
| Group A exercises for a month. Group B does not exercise. They measure the amount of weight they gained.                                                                        |   |           |
| One math class studies for an assessment while the math class next door does not. The scores of the two classes are compared.                                                   |  |           |
| One plant is given sunlight every day. Another plant is not given any sunlight. After 3 weeks, we measure how tall the plant is.                                                |  |           |
| One plant is given sunlight for 12 hours a day. Another plant is not given any sunlight. After 3 weeks, we compare how green each plant looks.                                  |  |           |