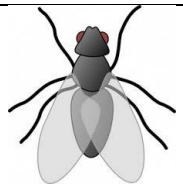
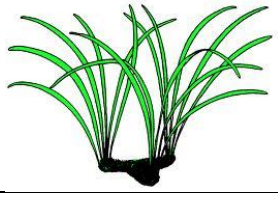
Name:_____ Period:_____

Scientific Variables

Identify the independent and dependent variable in each scenario.

Scenario		Independent	Dependent
One chicken is injected with a growth hormone while another chicken is not injected. Both chickens are weighed after a year.		Growth hormone	Weight of chickens
A bug repellant 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.