








Scientific Variables

Task: Identify the independent and dependent variable in each scenario.

Scenario		Independent Variable	Dependent Variable
One chicken is injected with a growth hormone while another chicken is not injected. Both chickens are weighed after a year.		Chicken that was injected.	Weight of chickens
A bug repellent is sprayed on one arm, the other arm is not sprayed. The number of bug bites is recorded after 2 hours.		Sprayed Arm	Number of bug bites
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.		Twin sleeping 6 hours	Their scores

<p>Group A exercises for a month.</p> <p>Group B does not exercise. They measure the amount of weight they gained.</p>		<p>The exercise</p>	<p>Weight they gained</p>
<p>One math class studies for an assessment while the math class next door does not. The scores of the two classes are compared.</p>		<p>The studying</p>	<p>Scores of classes</p>
<p>One plant is given sunlight every day. Another plant is not given any sunlight. After 3 weeks, we measure how tall the plant is.</p>		<p>The Amount of sunlight</p>	<p>How tall the plant is</p>
<p>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.</p>		<p>The amount of sunlight</p>	<p>How green the plant is</p>

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