**FORMAL HYPOTHESIS**

If the DV is related to the IV, then changing the IV will affect (effect) the DV.

Example: Growing plants watered with Coke, vinegar, bleach, ammonia, and water. You are going to measure the height of the plant in centimeters.

IV – the variable YOU change – the type of fluid you watered the plant with – actually the pH of the liquid.

DV – the variable you measure – the height of the plant (in centimeters)

*If the height of the plant is related to the pH of the liquid used to water the plant, then the liquid with a pH closest to neutral will have the greatest plant height growth.*

You cannot simply plug in your variables, the hypothesis needs to explain what you are doing and what you are planning to test. The hypothesis needs to explain the relationship that you think you may or may not be able to prove by doing your experiment.
HOW ARE HYPOTHESIS WRITTEN?

Rewrite the hypothesis using the formalized style. Single underline the dependent variable and double underline the independent variable in the 'IF' clause of each hypothesis.
When you are done, write one more original hypothesis of your own in the formalized style.

1. Salt in soil may affect plant growth.

2. Plant growth may be affected by the color of the light.

3. Bacterial growth may be affected by temperature.

4. Ultraviolet light may cause skin cancer.

5. Temperature may cause leaves to change color.

6. Exercise may be good for your health.

7. Driving too fast may cause accidents.

8. Playing violent video games may lead to violent behavior.

9. Smoking may cause cancer.

10.

Which of the following is a STATEMENT, PREDICTION, or FACT.

1. If I play the lottery, then I will get rich.
2. Using Tide gets stains out.
3. Chevy trucks are built, "like a rock".