



STUDYDADDY

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Name: _____

Hypothesis Formation Worksheet

Explain the following terms *in your own words*:

Independent Variable (IV) _____

Dependent Variable (DV) _____

Control or Constant Variables _____

For each of the following problem statements, identify the **IV**, **DV**, and **constants**. Then write a hypothesis. Remember the following format:

If...(IV goes here), then...(DV goes here), because...

1. How does studying with music affect student test scores?

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: _____

2. How does use of an organized binder affect the amount of homework a student turns in?

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: _____

3. How does temperature affect a football player's performance?

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Name: _____

Hypothesis: _____

4. How does sunlight affect plant growth?

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: _____

5. How does drinking juice before bed affect how many hours you sleep?

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: _____

Read the paragraphs describing an experiment. Then, answer the questions that follow.

1. Ms. Wagner loves to eat tomatoes. She wants to plant a garden and is trying to figure out how to grow plants with more tomatoes. She plants three different pots of tomato plants and gives them different amounts of fertilizer. She keeps everything else the same (the amount of water, the amount of soil, the amount of sun the plants get). For one month, she records how many tomatoes each plant produces.

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: _____

2. A dog owner wanted to test how exercise affects how his dog sleeps. He was careful to give his dog the same amount of food on the days he did the experiment. His results are shown below:

Amount of Exercise	Amount of Sleep
2 hours	4 hours
4 hours	5 hours
6 hours	6 hours

Name: _____

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: _____

3. Jacob wanted to test the projectile motion of a pumpkin. He bought three orange pumpkins and tested them all on the same day. His results are shown below:

Mass of Pumpkin	Height
5 kg	10 meters
10 kg	5 meters
15 kg	1 meter

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: _____



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