

Experimental Design – PRACTICE / HOMEWORK

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: *If a student studies while listening to music, then their test scores will*
_____ *because* _____

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

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: If _____,
then _____
because _____

Name: _____

3. How does temperature affect a football players performance?

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: If _____,

then _____

because _____

_____.

4. How does sunlight affect plant growth?

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: If _____,

then _____

because _____

_____.

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

Independent Variable: _____

Dependant Variable: _____

Constants: _____

Hypothesis: If _____,

then _____

because _____

_____.