Create An Experiment

**Objective**: Create an experiment that you could perform.

**Due Date:**

You are going to create an experiment that will test a hypothesis. You need to show that you understand the parts that make up a Psychological experiment. **Note:** While this assignment does not call for you to actually conduct the experiment, if you choose to do so and hand in your results by the end of the semester, you will receive extra credit.

**Things to Include**

* Hypothesis – What do you think is going to happen?
* Subjects – Who will be your subjects? How will you pick them and how many are you going to need?
* Variables
	+ Dependent – The variable that you will watch.
	+ Independent – The Variable that you will change.
* Control – Where will this experiment take place? Will it require both a control and experimental group?
* Replicable – What method of research will you use? Can in be replicated? How will you make sure others can perform your experiment?
* Results – How will you collect the information, how will you show the information that you collect?

**Things to Remember**

* Variables need to be observable and reproducible
* Experiment must be organized.
* Experiment must be replicable
* All parts of this assignment need to be typed.

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| **Research Step** | **Your description of Research Step** |
| Hypothesis: | **Hypothesis** |
| What is the expected relationship? |  |
| Subjects: | **Subject Selection** |
| Who is being studied? | Sample:Population: |
| Assignment of Subjects: | **Assignment to Group** |
| How are subjects divided into two (or more) groups? |  |
| Independent Variable: | **Experimental Group** | **Control Group** |
| What is the IV? | **Worksheet for Analyzing Experiments** |  |
| Dependent Variable: | **Expected Result** | **Expected Result** |
| What is the DV? |  |  |
| Analysis of Outcomes: | **Comparison of Groups** |
| How did the groups differ? |  |
| **Experimenter Bias** |
| Possible sources of Experimenter Bias? |  |
| **Confounding Variables** |
| Possible Confounding Variables |  |
| **Ethical Considerations** |
| What are the ethics involved in this research? |  |

**There are some factors that might confuse the results of the study. Do you see any in this study?**

**Sample Psychology Experiment**

Hypothesis:

People with small feet will draw better and more accurate than people with big feet.

Subjects:

Subjects will be chosen and categorized under small or big feet. A person with feet measuring less than 9 inches will be considered to have small feet. A person with feet measuring over 9 inches will be under the big feet category.

Variables:

Dependent: The accuracy of the drawings that the subjects make is what I will be testing.

Independent: The degree of foot size is what will change the results.

Control:

The experiment will take place at my house, where the subjects will each take turns taking part of this experiment.

Replicable:

To replicate this experiment, first find your subjects. Then measure they're feet and categorize them into either the small feet group or big feet group. Once you've set up the groups, set up a chart where the subjects will draw simple objects such as a coffee cup or a teapot. When all subjects are finished drawing, overlook their work and take note which ones are more accurate. The results will surprise you.

Results:

I will collect my results by setting up a graph and measuring the accuracy on a level of 1 to 5. Then I will plot it out and use two different colors for the small feet group and the big feet group to show the results in a way that's easy to understand.

