

## Unit 1: Experimental Design Study Guide – **Answer Key**

Complete all questions on a separate sheet of paper.

1. Define and give an example of a hypothesis. – *A hypothesis is a testable solution to a scientific problem. It is written in an "if, then" statement which includes the independent and dependent variables. An example of a hypothesis would be if salt is added to the bucket of ice, then the cokes will stay colder longer.*
2. What two things does a problem statement need to have in it in order to be a valid testable question? *A problem statement needs to include an independent and a dependent variable in order for it to be a valid testable question.*
3. Explain the experiment part of the experimental design process. *The experiment part of the experimental design consists of an independent variable, dependent variable, a control and constants. The experiment should only test one independent variable at a time, as well as repeating it for validity and reliability.*
4. Define and give an example of an independent variable. *An independent variable in an experiment is the part of the experiment that the scientists change in order to see if it affects another factor. An example of an independent variable would be the direction of folds of the paper helicopter blades.*
5. Define and give an example of a dependent variable. *A dependent variable is expected to change because of the independent variable. An example of a dependent variable would be the direction in which the paper helicopter flew after the blades were folded in a different direction.*
6. Define and give an example of a control. *The part of the experiment that is not receiving any treatment (independent variable). It is used as a basis for comparison. One plant (A) is being tested to see if it will grow taller because of aika seltzer water, the other plant (B) is just given water. Plant B's measurements will be compared to plant A to see if there is more or less growth.*
7. Define and give an example of a constant. *A constant in an experiment is used to keep all of the conditions the same except for what is being tested. In the paper helicopter experiment, the constants were the same paper helicopter, the same person dropping it, the same height, the same chair, and the same number of trials.*
8. For an experiment to be valid, how many independent variables should be present in an experiment? *For an experiment to be valid, only ONE independent variable should be tested at one time.*
9. Why do scientists and students repeat experiments? *Scientists repeat experiments to make sure their results are valid.*
10. If results from an experiment were valid, what would happen if another scientist or student performed the same exact procedure with identical materials? *The results from the experiment should match or closely resemble the data from the original experiments. This would make the experiment reliable.*
11. Why is it important to use graphs to display data? *It is important to use graphs to display data because they can show trends in the collection of data.*
12. Write an observation based on the information from the line graph below.

# Fundamentals Of Experimental Design Answer Key

**Jianjun Gao**



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