

BIOLOGY SOL REVIEW Guide

Part 1: Scientific Investigation

1. _____ - act of gathering information about a system or environment using one or more of the five senses.
2. _____ - a conclusion based on prior knowledge or information.
3. _____ - "educated guess" or predicted solution to a problem.
4. _____ - factors that change and can be measured in the experiment.
5. _____ - the variable that you change on purpose.
6. _____ - The variable that changes because of changing the I.V.
7. _____ - A standard against which experimental results can be measured.
8. _____ - Things that are kept the same in the experiment.
9. Example Scenario -

Jack wanted to test which brand of car wax was most effective. He tested four brands of wax. He cleaned the hood of his car and removed the old wax. He measured four equal sections on the hood of the car. Each of the waxes was used to cover a section. An equal amount of wax, the same type of rag, and equal buffing were used. Five drops of water were placed on each square, and the diameter of each drop was measured (cm) (quantitative). Jack could have used a qualitative dependent variable by developing a rating scale for amount of shine, from dull to very shiny.

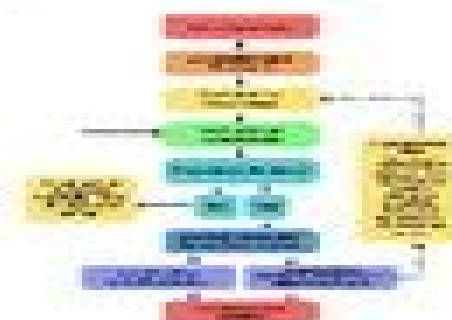
Independent Variable = _____

Dependent Variable = _____

Constants = _____

Graphing

10. Each graph consists of a vertical axis that intersects a horizontal axis at the _____.
11. The _____ variable is recorded on the horizontal or x-axis.
12. The _____ variable is recorded on the vertical or y-axis.
13. There are four types of relationships in a line graph.
 - i. Direct relationship - as the I.V. increases the D.V. _____.



Va Biology Sol Study Guide

JS Bruner



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A Comprehensive Guide to Toxicology in Preclinical Drug Development Ali S. Faqi, 2012-11-02 A Comprehensive Guide to Toxicology in Preclinical Drug Development is designed for toxicologists who need a thorough understanding of the drug development process This multi contributed reference will provide a detailed picture of the complex and highly interrelated activities of preclinical toxicology in both small molecules and biologics

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979

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Resources in Education, 1981

Resources in Education, 1982

Scientific and Technical Aerospace Reports, 1994

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