

Biology 101 Exam 1 Study Guide

Chapter 1: Scientific thinking

1. Describe what science is.

Science: the intellectual and practical activity of encompassing the systematic study of the structure and behavior of the physical and natural world through observation and experimentation

- From the Latin word for "knowledge"
- A way of knowing
- Knowledge built through experimentation and observation
- A collection of facts and process for understanding the world
- Not simply a list go facts to be memorized but rather an intellectual activity

2. What are the steps of the scientific method.

I. Ask a question

II. Do background research

III. Construct a thesis

IV. Experiment

V. Analyze results/Draw conclusions

- **TRUE:** report results
- **FALSE/PARTIALLY TRUE:** report results and try again

3. Describe key aspects of well-designed experiment

Aspects of a well-designed experiment include:

- A sample size
- Treatment/experimental group
- Control group
- Variables:
 - Dependent variable
 - Independent variable

Bio Guide 37 Answers

Ensheng Dong



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