

BIO 101 Exam 1 Study Guide

Chapter 1: Life & Process of Science

- Describe why knowledge of science and scientific literacy is both relevant and important.
 - Use it to think creatively about real-world issues that have scientific component
 - Integrate these ideas into your decision making
- Define "**Biology**": scientific study of life
- List and describe the characteristics of life.
 - -Cells
 - -smallest unit of life that can function independently and perform all necessary functions of life, including reproducing itself
 - -all living things made of cells
 - -DNA: cells use DNA as the chemical material of genes
 - -Energy: cells require energy and source of building materials (matter) for growth, maintenance and repair
 - -Order: living things create/maintain order
 - -Regulation
 - -Growth/Development
 - -Respond to environment: ex- fight or flight
 - -Reproduction
 - -Evolution
- List/explain the steps in the scientific method.
 - Step 1: Make observation
 - Step 2: Hypothesis
 - Step 3: Prediction
 - Step 4: Conduct Experiment
 - Step 5: Conclusion
- Explain what a **control group** is: Control group doesn't get treatment in experiment; baseline to compare data from experiment to
- Explain what we mean by replication in experimental design.
 - must have more than 1 subject in both control & experimental groups
- Define the term "**scientific theory**" and contrast it with the term "**hypothesis**"
 - comprehensive idea that's supported by an extensive and varied evidence; broader than hypothesis & supported by scientific reasoning
- Identify the independent and dependent variables in a hypothesis.
- Interpret graphical data from a simple experiment.

Chapters 2,3: Chemistry & Macromolecules

- Define **matter**: anything that occupies space/has mass; solid, liquid, gas
- Describe what elements comprise life and the human body.
 - 1. carbon
 - 2. hydrogen
 - 3. Oxygen— makes up the most of your body
 - 4. nitrogen
- Describe the parts of an atom (what and where and how many?).
 - **Protons**: part of atomic nucleus; have (+) charge

Bio 101 Lab Answers

SJ Ball



Bio 101 Lab Answers:

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