

Biology EOC Review

Answers are in italics.

Goal 1: Learner will develop abilities necessary to do and understand scientific inquiry.
28-32%

1.01 Identify biological problems and questions that can be answered through scientific investigations.

The Scientific Method

1. List and describe the steps of the **Scientific Method**. Make sure you include observations, creating a testable hypothesis, identifying variables, data, having an adequate sample, & replicating your findings.
Purpose/Question, Observation, Hypothesis, Experiment (independent, dependent and controls), Data and Analysis, Communicating Findings, Replicating/Repeating the experiment.
2. Why do many experiments make use of a control group? *Used as a basis of comparison, normal*
3. What are the characteristics of a good experiment? *Large sample size, one variable tested at a time.*
4. What is the difference between an inference and a prediction? *An inference is a logical interpretation based upon prior knowledge or experiences. A prediction is based upon direct observations.*
5. What are the differences between hypothesis, theory and law?
Hypothesis – suggested outcome to a scientific question. Theory – a well supported hypothesis that unifies a broad range of indirect observations. Law – A documented hypothesis supported by direct evidence.
6. What is the difference between an independent and dependent variable? *The independent variable (manipulated variable) is what the scientist changes in an experiment. The dependent variable (responding variable) changes as a result of the independent variable.*
7. Interpret graphs. Which axis has the independent variable? Which axis has the dependent variable? When do you use a bar graph? A line graph? A pie graph? *(X/Y) Bar graphs are used for comparisons, line graphs show change over time and pie graphs show a representation of something to the whole.*

Tools of a Biologist: Things to know about Microscopes

8. How do you determine the magnification of the field of view for a microscope? *You multiply the eyepiece by the objective lens.*
9. What happens to the diameter of the field of view when you change from low to high power? *It gets much smaller.*
10. How do you estimate the size of a cell or cell structure when using a microscope?
Micrometers (1.3 mm (millimeters) would be 1300 micrometers)
11. What do you adjust first on a microscope? What you then adjust when on the highest power? *You adjust it on low power with the coarse adjustment, then use the higher power and the fine adjustment.*

1.2 Design and conduct scientific investigations to answer biological questions (create testable hypotheses, identify variables, use a control or comparison group when appropriate, select and use appropriate measurement tools, collect and record data, organize data into charts and graphs, analyze and interpret data, communicate findings).

Northridge Learning Center Packet Answers Biology 1

RJ Alexander



Northridge Learning Center Packet Answers Biology 1:

Handbook of Research on Effective Electronic Gaming in Education Ferdig, Richard E.,2008-07-31 This book presents a framework for understanding games for educational purposes while providing a broader sense of current related research This creative and advanced title is a must have for those interested in expanding their knowledge of this exciting field of electronic gaming Provided by publisher **Who's who in the West** ,2001 **Who's who in California** ,1983 **Who's who of American Women, 1991-1992** ,1991 *Who's Who in California* Sarah A. Vitale,1983-06 *FL Biology 1 - Worksheet Collection* Lincoln Learning Solutions,2024-12-09 **Biology 1** Pearson Custom Publishing,1998-08-01
 General Biology 1 Pearson Custom Publishing,1996-08-01 **Principles of Biology 1** Pearson Custom Publishing,1997-01-01 **Introduction Biology 1 and 2** Pearson Custom Publishing,1983-01-01 *Principles of Biology 1* Pearson Custom Publishing,Usis,1996-06-01

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Northridge Learning Center Packet Answers Biology 1**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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