

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 course 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).**

12. Graph this data. 13. What is the **independent variable**? *Temperature*

The **dependent variable**? *Rate at which gills open and close*



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JS Bruner



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Table of Contents 2nd Semester Inquiry Review Answers Bio

1. Understanding the eBook 2nd Semester Inquiry Review Answers Bio
 - The Rise of Digital Reading 2nd Semester Inquiry Review Answers Bio
 - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Inquiry Review Answers Bio
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2nd Semester Inquiry Review Answers Bio
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Inquiry Review Answers Bio
 - Personalized Recommendations
 - 2nd Semester Inquiry Review Answers Bio User Reviews and Ratings
 - 2nd Semester Inquiry Review Answers Bio and Bestseller Lists

5. Accessing 2nd Semester Inquiry Review Answers Bio Free and Paid eBooks
 - 2nd Semester Inquiry Review Answers Bio Public Domain eBooks
 - 2nd Semester Inquiry Review Answers Bio eBook Subscription Services
 - 2nd Semester Inquiry Review Answers Bio Budget-Friendly Options
6. Navigating 2nd Semester Inquiry Review Answers Bio eBook Formats
 - ePub, PDF, MOBI, and More
 - 2nd Semester Inquiry Review Answers Bio Compatibility with Devices
 - 2nd Semester Inquiry Review Answers Bio Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2nd Semester Inquiry Review Answers Bio
 - Highlighting and Note-Taking 2nd Semester Inquiry Review Answers Bio
 - Interactive Elements 2nd Semester Inquiry Review Answers Bio
8. Staying Engaged with 2nd Semester Inquiry Review Answers Bio
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2nd Semester Inquiry Review Answers Bio
9. Balancing eBooks and Physical Books 2nd Semester Inquiry Review Answers Bio
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2nd Semester Inquiry Review Answers Bio
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2nd Semester Inquiry Review Answers Bio
 - Setting Reading Goals 2nd Semester Inquiry Review Answers Bio
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2nd Semester Inquiry Review Answers Bio
 - Fact-Checking eBook Content of 2nd Semester Inquiry Review Answers Bio
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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