

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.*

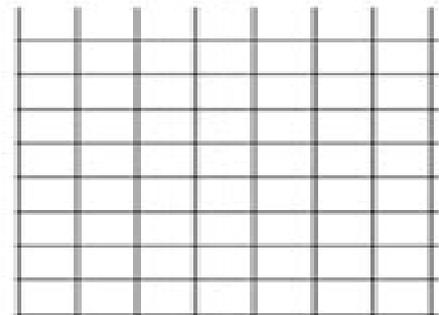
Tools of a Biologist: Things to know about Microscopes

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*



2nd Semester Inquiry Review Answers Bio

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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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