

## 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:

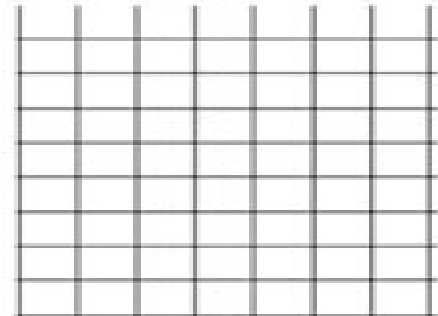
1. List and describe the steps of the Scientific Method. Make sure you include **observations**, creating a testable **hypothesis**, identifying **variables**, **data**, having an **adequate sample**, & **replicating** your **findings**.  
*Purpose/Question, Observation, Hypothesis, Experiment (independent, 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).**
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

**Huangqi Zhang**



## **2nd Semester Inquiry Review Answers Bio:**

## **2nd Semester Inquiry Review Answers Bio** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **2nd Semester Inquiry Review Answers Bio**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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