

## 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

**Melville Y. Stewart**



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**Cambridge Checkpoints VCE Biology Units 1 and 2 Third Edition** Harry Leather, Jan Leather, 2016-02-29

*Biology* Louis Richard Meeth, 1981      *Biology/science Materials* Carolina Biological Supply Company, 1991

Qualitative Inquiry in Geoscience Education Research Anthony D. Feig, Alison Stokes, 2011      *Curriculum Review* , 1980

**The American Biology Teacher** , 2007-08      **Biology** Kenneth R. Miller, 1991      A Guide to Asking about Life for

Teachers and TAs Donald L. Cronkite, 2001      **MALDI Mass Spectrometry Imaging** Tiffany Siegel Porta, 2021-12-03 This

book gathers knowledge about matrix assisted laser desorption ionisation MALDI mass spectrometry imaging for postgraduate and professional researchers in academia and in industry where it has direct application to clinical research

**Summaries of Projects Completed in Fiscal Year ...** , 1979      *Summaries of Projects Completed* National Science

Foundation (U.S.),      **Summaries of Projects Completed in Fiscal Year ...** National Science Foundation (U.S.), 1979

Research in Education , 1974      *Resources in Education* , 1990      *Athenaeum* James Silk Buckingham, John

Sterling, Frederick Denison Maurice, Henry Stebbing, Charles Wentworth Dilke, Thomas Kibble Hervey, William Hepworth Dixon, Norman Maccoll, Vernon Horace Rendall, John Middleton Murry, 1860      Science and Religion in Dialogue Melville Y.

Stewart, 2009-12-01 This two volume collection of cutting edge thinking about science and religion shows how scientific and religious practices of inquiry can be viewed as logically compatible complementary and mutually supportive Features

submissions by world leading scientists and philosophers Discusses a wide range of hotly debated issues including Big Bang cosmology evolution intelligent design dinosaurs and creation general and special theories of relativity dark energy the

Multiverse Hypothesis and Super String Theory Includes articles on stem cell research and Bioethics by William Hurlbut who served on President Bush's Bioethics Committee      Farmers' Review , 1895      Centering Humanism in STEM Education

Bryan Dewsbury, Susannah McGowan, Sheila S. Jaswal, Desiree Forsythe, 2024-09-24 Research demonstrates that STEM disciplines perpetuate a history of exclusion particularly for students with marginalized identities This poses problems

particularly when science permeates every aspect of contemporary American life Institutions repeated failures to disrupt systemic oppression in STEM has led to a mostly white cisgender and male scientific workforce replete with implicit and or

explicit biases Education holds one pathway to disrupt systemic linkages of STEM oppression from society to the classroom Maintaining views on science as inherently objective isolates it from the world in which it is performed STEM education must

move beyond the transactional approaches to transformative environments manifesting respect for students social and educational capital We must create a STEM environment in which students with marginalized identities feel respected

listened to and valued We must assist students in understanding how their positionality privilege and power both historically and currently impacts their meaning making and understanding of STEM      **Lecture-free Teaching** Bonnie S. Wood, 2009

**Intelligent Learning Paradigm and Student Empowerment** Souvik Pal, Ton Quang Cuong, R. S. S. Nehru, 2024-12-06

The Covid 19 pandemic brought about dramatic change in the education sector deeply affecting schools as they were forced to shut down and as online learning became common Post Covid it is clear that many of the practices brought about by the pandemic are actually beneficial in education in the long run This new volume explores the development and evolution of smart learning learning analytics intelligent learning and the Internet of Things as they pertain to student empowerment in the classroom The book covers a wide range of topics on digital pedagogy including educational robotics immersive technology based education systems interactive e books using virtual reality and augmented reality XR technology online proctoring digital transformation of teaching method modules and much more Key features Incorporates and transforms digital pedagogy across the board of functional processes Explores state of the art smart tools in education Offers ideas for successful transformation to digital teaching methods Discusses how digital education can foster student agency and promote cross disciplinary collaboration

The Top Books of the Year 2nd Semester Inquiry Review Answers Bio The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. 2nd Semester Inquiry Review Answers Bio : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. 2nd Semester Inquiry Review Answers Bio : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://recruitmentslovakia.sk/About/detail/HomePages/Personel%20Management%20N2question%20Paper.pdf>

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