

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

Raffaela Di Napoli



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

Biology/science Materials Carolina Biological Supply Company, 1991 *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 **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 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.), 1979 *Farmers' Review*, 1895 Resources in Education, 1990 **Research in Education**, 1974 **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 *Lecture-free Teaching* Bonnie S. Wood, 2009 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 **The Athenaeum**, 1877

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in this book, the reader will learn ... Understanding mass balance for food compliance Nov 6, 2022 — Mass balance, in relationship to food production, can be defined as being the ability to account for all quantities of raw materials, waste, ... Tolerance on Mass Balance for Recall/withdrawal for BRC Aug 3, 2016 — Tolerance on Mass Balance for Recall/withdrawal for BRC - posted in BRCGS ... For example, if you have used 100 Kg of raw materials and 1000 donut ... BRC Auditing - What To Expect Under Food Issue 8 Oct 17, 2019 — The mass balance is the quantity of incoming raw material against the quantity used in the resulting finished products, taking process waste and ... The Mass Balance Approach in Feedstock Substitution An established method to foster sustainability in existing infrastructure · Benefits of the Mass Balance Approach · Biomass balance and ChemCycling · ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. “Material Flow Analysis” or “Substance Flow Analysis.” Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain – the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.