

Biology EOC Review

Name: _____

Period: _____

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**.
2. Why do many experiments make use of a **control group**? **Something to compare to**
3. What are the characteristics of a good experiment? **Many tests, all parts of an experiment present**
4. What is the difference between an **inference** and a **prediction**?
Inference = based on observations; Prediction = is a hypothesis
5. What are the differences between **hypothesis**, **theory** and **law**?
Hypothesis = educated guess; theory = based on experiments; law = proven the same over and over
6. What is the difference between an **independent** and **dependent** variable?
Independent variable = thing you test or change; Dependent variable = thing you measure
7. Interpret graphs. Which axis has the independent variable? Which axis has the dependent variable?
Independent variable = x axis; Dependent variable = y axis

Tools of a Biologist: Things to know about Microscopes

8. How do you **determine the magnification** of the field of view for a microscope?
Power of lens + Power of Objective = magnification
9. What happens to the **diameter** of the field of view when you change from low to high power?
Less to High magnification
10. How do you estimate the **size** of a cell or cell structure when using a microscope?
Consider magnification and original size
11. What do you adjust first on a microscope? What you then adjust when on the highest power?
1. Course Adjustment; 2. Fine adjustment

1.2 Design and conduct scientific investigations to answer biological questions.

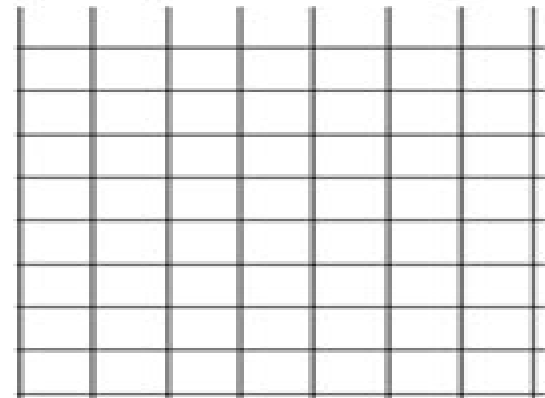
12. You have measured the rate at which a fish breaths at various temperatures by counting the rate at which its gills open. The data is below. Graph this data.

Breathing rate Temperature

19/min 5 deg C, 25/min 10 deg C, 30/min 20 deg C, 34/min 30 deg C,
37/min 35 deg C

13. What is the **independent variable**? The **dependent variable**?
Independent = temperature; Dependent = breathing rate
14. What is the best type of graph for this data? Why?
Line = shows trends
15. What happens to breathing rate with increase in Temperature?
Increases
16. What would be a **good control** for this experiment?
Temperature stays the same and measure
17. How do you think the breathing rate was measured?
Breathes per minute
18. What do you think would happen if you raised the temperature even more?
Increase in breathing rate
19. Why would it be a bad idea to do this? **Could kill the fish**

1.3 Formulate and revise scientific explanations and models of biological phenomena using logic and evidence to: explain observations, make inferences and predictions, explain the relationship between evidence and explanation.



Biology Eoc Review 2014 Answers

Bertram Coren



Biology Eoc Review 2014 Answers:

Advances in Epithelial Ovarian Cancer: Model Systems, Microenvironmental Influences, Therapy, and Origins Viive Maarika Howell, Ben Davidson, TIAN-Li WANG, Christina Annunziata, 2016-02-03 This eBook provides a compendium of the current state of the art in research tools for and understanding of the critical research areas in epithelial ovarian cancer EOC with a strong emphasis on HG SOC Research areas covered include therapy response and development microenvironmental influences and the etiology and progression of EOC Ten articles detail established and novel in vivo and in vitro model systems These include primary and immortalized cell culture in 2D and 3D as well as genetically engineered transgenic spontaneous syngeneic classical xenograft and patient derived xenograft mouse models The generation of genetically engineered mouse models of HG SOC has been a major dilemma as models with the oncogenic aberrations common in the human malignancy do not accurately recapitulate HG SOC Conversely commonly used HG SOC cell lines have been found to not harbor the expected genetic changes These issues as well as the rapid acceptance of patient derived xenograft models are reviewed Five articles discuss different aspects of the tumor microenvironment including its role in therapy resistance disease progression and metastasis Mutation of BRCA1 2 continues to be the best defined risk factor for HG SOC Three articles discuss BRCA loss in the context of disease development targeted therapies and changes in preventative measures proposed for mutation carriers in light of the recent advances in knowledge regarding the origins of this malignancy An image of HG SOC with reduced BRCA1 expression is featured on the cover image by VM Howell A major clinical issue for patients with HG SOC is the development of therapy resistance Five articles focus on therapy resistance and different ways to overcome resistance Overall this eBook is an outstanding resource to aid researchers design their programs of research and determine the most appropriate and up to date EOC model systems to address their research questions *Climate Change 2022 - Impacts, Adaptation and Vulnerability* Intergovernmental Panel on Climate Change (IPCC), 2023-06-22 The Working Group II contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the scientific literature relevant to climate change impacts adaptation and vulnerability The report recognizes the interactions of climate ecosystems and biodiversity and human societies and integrates across the natural ecological social and economic sciences It emphasizes how efforts in adaptation and in reducing greenhouse gas emissions can come together in a process called climate resilient development which enables a liveable future for biodiversity and humankind The IPCC is the leading body for assessing climate change science IPCC reports are produced in comprehensive objective and transparent ways ensuring they reflect the full range of views in the scientific literature Novel elements include focused topical assessments and an atlas presenting observed climate change impacts and future risks from global to regional scales Available as Open Access on Cambridge Core **EOC Biology** Michelle Rose, 2005 CliffsNotes STAAR EOC Biology Quick Review Courtney Mayer, 2015-09-22 A helpful review guide for the 300

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web the pcl 3 lewis structure has the typical case of phosphorus p in the center with 3 bonds to 3 other atoms phosphorus is from the same column as nitrogen in the periodic table meaning that p and n generally have the same bonding structure note the lone pair dots without bonds on top of p just like for n in the previous example for nh 3 chlorine cl

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