

Biology Honors Semester 1 Review Packet

Name: Nicholas Schron, Joshua Ruiz, and Jade Cintron Periods: 2nd, 4th, 5th

This study guide is due the day after the semester test and will count as a grade. Answer all questions on a separate piece of paper.

Practice of Science / Theories and Laws

1. Explain the difference between an observation and an inference.
The difference between an observation and an inference is that an observation is what you see, while an inference is a guess, or what you think you're going to see.
2. What is needed to have a good scientific claim?
What you need to have a good scientific claim is when you have enough evidence to support your answers and proof of your claim.
3. How do scientists determine if a claim is valid?
Scientists determine if a claim is valid or not by doing the experiment or observation again to make sure the claim is valid.
4. Describe the following as used in a scientific experiment:
 - a. Independent variable: the factor that directly changes the scientific experiment.
 - b. Dependent variable: the factor that is observed or measured in an experiment.
 - c. Methods/ procedures: Detailed steps to conduct the experiment.
 - d. Control group: the group of a subject that is not exposed with independent variable.
 - e. Experimental constants: Factors that remain unchanged throughout an experiment.
 - f. Collected data: Information that is gathered.
 - g. Graphs/tables/charts/formulas: tools that are used to collect data in an experiment.
 - h. Analysis/ conclusions: interpretation of the data to collect meaningful thoughts on how your hypothesis went.
5. Which sources of information are considered reliable (Hint: it is not Google, Bing or Wikipedia) for scientific investigations?
Sources with the extension .gov or verified sources by trusted scientists.
6. Explain the difference between a scientific theory (like evolution) and a scientific law (like the law of gravity)
Scientific laws are rules for how nature will behave under specific conditions, usually written as a complicated equation, while scientific theories are complicated explanations about how nature works and why it has those characteristics.
7. When do scientists use models?
Scientists use models to explain something very complicated, or when they cannot study it up close.

SC.912.L.14.1 - Cell Theory

SC.912.L.14.3 - Cell Structure

8. What are the basic parts and functions of a compound light microscope?
The basic parts of a compound microscope include: eyepiece, stage, base, arm, fine focus knob, coarse focus knob, slide, slide clips, and objective lenses.
9. How are a scanning electron microscope (SEM) and a transmission electron microscope (TEM) the same? How are they different?

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**Alexandra Anh-Thu Weber, Eleonora
Puccinelli, Paris Vasileios
Stefanoudis, Daniela Zeppilli**

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16th Deep-Sea Biology Symposium Alexandra Anh-Thu Weber, Eleonora Puccinelli, Paris Vasileios Stefanoudis, Daniela Zeppilli, 2023-11-28 The 16th Deep Sea Biology Symposium was held in Brest France and online from the 12th to the 17th of September 2021. The first DSBS hybrid symposium brought together scientists students managers policymakers and industry specialists who presented advances in deep sea research. Themes of the symposium and of this Research Topic include Conservation and stewardship natural anthropogenic impacts conservation governance. This includes but is not limited to deep seabed mining pollutants and debris climate change impacts marine spatial planning stewardship of the deep ocean. Biodiversity and ecosystem functioning biodiversity patterns species distribution function from polar to temperate regions mesopelagic to hadal microbes to large pelagic Life history traits and population connectivity reproductive ecology larval development and dispersal and population connectivity. Adaptations of deep sea organisms from molecules to organisms how life adapts to extreme conditions including for instance bioluminescence and vision in the deep sea. Access to the deep sea technological and methodological advances to access and investigate deep sea life including observatories and cutting edge technologies e.g. A I and omics. Deep sea biomimicry discovery of new technologies inspired by deep sea biological solutions. Science communication in the deep including innovative approaches to increase ocean literacy merging arts sciences.

The Strong Adaptability of Insects Shaped by Plasticity Jia Fan, Yong Liu, Fengqi Li, Frédéric Francis, Feng Shang, 2023-11-06 **Coping with Climate Change: A Genomic Perspective on Thermal Adaptation** Margarida Matos, Pedro Simões, Inês Fragata, Ana Sofia Quina, Torsten Nygaard Kristensen, Mauro Santos, 2021-02-22

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