

Name: KEY

Biology - Semester Test Review Guide

Mrs. Reed

The semester test will cover all information from the beginning of school (Units 1, 2, & 3). This includes: Characteristics of Life, The Scientific Method, Classification, Viruses, Bacteria, Protists, Fungi, & Biochemistry. ***Cells will NOT be on this test***

You should study your notes!!

*****Remember: You may also use a 3 x 5, handwritten note card on your exam. You may use both sides, but the index card must be an original and not a photocopy.***

Unit 1: Characteristics of Life, The Scientific Method, & Classification

1. The independent variable in an experiment is – **What I change**
2. The dependent variable in an experiment is – **What I observe**
3. What is a hypothesis? **What do you think will happen**
4. What is a control? **Group that stays the same**
5. What are the 8 characteristics of life?
 1. **Evolve**
 2. **Made of Cells**
 3. **Genetic material RNA/ DNA**
 4. **Requires Energy**
 5. **Growth & Development**
 6. **Maintain Homeostasis**
 7. **Reproduce**
 8. **Responds to stimuli (environment)**
6. Four characteristics of viruses are:
 1. **Not Alive or made of cells**
 2. **Can only reproduce inside a host cell**
 3. **Variety of Shapes**
 4. **Can remain dormant for years**
7. Viruses are made of DNA/RNA material surrounded by a Protein Coat.
8. List 4 diseases that are caused by viruses:
 1. **HIV / AIDS**
 2. **H1N1**
 3. **Polio**
 4. **Flu & many others (Chicken Pox, Herpes, Rabies, West Nile, Mono)**
9. Viruses that infect and kill bacteria are known as?
Bacteriophage
10. How is the treatment for a bacterial infection different from that of a viral infection?
Viruses can only be prevented by vaccines. Bacterial infections can be treated with Antibiotics
11. How does a vaccine work?
Person gets a weakened or dead amount of the virus to help them to make antibodies.
12. What is a dichotomous key? (You will need to know how to use one)
It's a step by step method of classifying organisms
13. The classification systems from largest to smallest is:
Kingdom Phylum Class Order Family Genus Species

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Reviewing **Nd Semester Biology Semester Test Study Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Nd Semester Biology Semester Test Study Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web in this two part activity students explore the idea of common ancestry by making hypotheses about relatedness among whales deer tigers seals and sharks they use an evolutionary tree to keep track of their hypotheses and observations about

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web 12 when two groups of organisms independently evolve similar adaptations it s called convergent evolution sharks and whales both have streamlined bodies and tail flukes how do we know that these similarities are because of convergent evolution hint whales are tetrapods are sharks

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web whale whale has a much shorter and thicker humerus radius and ulna much longer metacarpals whale fin needs to be longer to help in movement through water thumbs are not necessary as they don t need to pick up and grasp things cat curved humerus shorter thinner humerus and ulna and radius smaller metacarpals and phalanges

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web d have students discuss the answers for completeness and to hear about how others compare and contrast the fossil animals to today s animals iii whale evolution timeline a explain to students that a timeline is a way to show or map something that has happened whether in recent times or in the past b show powerpoint whale evolution

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web the evolution lab answer key one small step 6 it helps them to see and catch prey above them in the water 7 d 8 this tree or an equivalent 9 c origin of whales 10 a 11 b 12 sample answer because sharks and whales are not closely related and did not inherit these traits from a common ancestor whales evolved from tetrapods sharks

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web cetacea balaenopteridae humpback whale eschrichtiidae grey whale physeteridae sperm whale delphinidae dolphin monodontidae beluga whale phocoenidae porpoise sirenia dugongidae dugong trichechidae manatee proboscidea

elephantidae elephant perissodactyla equidae horse tapiridae tapir rhinocerotidae rhinoceros artiodactyla
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web lab 5 activity 3 whale evolution time estimate 90 minutes the basics in this activity you will be constructing a phylogenetic tree using three different criteria habitat and diet skeletal morphology and dna sequencing before you begin go to nova labs and complete mission 1 training tree to learn how to build a phylogenetic tree

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web in this unit students will study the evolution of whales from four limbed land dwelling mammalian ancestors to modern two finned aquatic mammals through a virtual or in class simulation lab this activity will teach them more about how fossils homologous structures and dna analysis provide evidence for macroevolution evolutionary theory

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web whale evolution lab answers modified and using material from becoming whales experiencing whale evolution discoveries today students complete their simulated whale evolution lab using dna to search for the whale s closest living relative they will use classification groups and fossil homology to narrow the search down to a key family group

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web the evolution of whales the first thing to notice on this evogram is that hippos are the closest living relatives of whales but they are not the ancestors of whales in fact none of the individual animals on the evogram is the direct ancestor of any other as far as we know that s why each of them gets its own branch on the family tree

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web in this lab you ll puzzle out the evolutionary relationships linking together a spectacular array of species explore the tree of life and get a front row seat to what some have called the

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web c this picture of whale evolution was about all we had until 1983 when the first of a series of discoveries began to fill the empty gap between land animals and whales that first discovery reported by whale specialist philip gingerich and others was pakicetus place the pakicetus strip 3 on the timeline

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web fill out the chart below with your answers to each structure by placing an x under the organism whose structure is more similar to the whale s structure fish cat x ears x eyes x lungs x forelimb x jaw x mammary gland 7

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