



## **Classification Essential Questions/Test Review**



Name:	Class Hour	Due	Score	140
Name:	Class noul	Due.	score:	/40

**Directions:** The following essential question/test review gives you the opportunity to reflect on what you have learned or need to learn. It is made of only key points and questions. Each practice question will ask to recall something you **should know** or ask you to **demonstrate how to do something.** 



Question 1: Explain in 1 paragraph how to use the classification key below to find the name of the little animal above the key. What is the name of the animal?

) <u>)</u>	Classification Key

Classification Key				
1.	a. Tail is shorter than ear go to 2 b. Tail is longer than ear go to 3			
2.	a. Back is striped			
3.	a. Back is striped			

Question 2: Explain in 1 paragraph what the picture below has to do with classification.

KINGDOM - Animalia insect fish snake bird pig dog panda black bear grizzly bear PHYLUM - Chordata snake bird pig dog panda blackbear grizzlybear CLASS - Mammalia dog black bear grizzly bear panda ORDER - Carnivora panda black bear grizzly bear FAMILY - Ursidae panda black bear grizzly bear GENUS - Ursus black bear grizzly bear SPECIES -<u>horribilis</u> grizzly bear

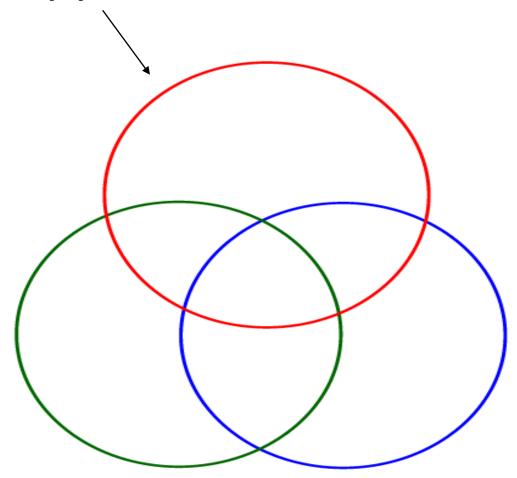
Question 3: Which of the following would be the best characteristic to be used to classify shoes according to the rules of classification?

A. laces or no laces B. number in a pair C. model or kind

D. cost

Question 4:

Use the triple VENN Diagram below to compare at least 2 similarities and 2 differences between living, once living, and nonliving things.



Question 5: Complete a **double bubble thinking map** below to describe why is a frog considered a living organism and a computer is

Question 6: Why is careful **observation** important in scientific classification?

## D. Demonstrate that there are many ways to classify things.

Question 7: Use a **tree thinking map** to show how you would classify something living or non-living according to structural characteristics. (e. g. shoes, animals, plants, fungi, protists, bacteria, rocks, clouds, mp3 players, or whatever).

Grou	oup A classified the leaves based on their shape. oup B classified the leaves based on the margins (edges) of the leaves. oup C classified the leaves based on the pattern of the leaf veins.					
Why	were all three ways of classifying the	e leaves co	orrect?			
Question 9: Why did every group not end up with the same classification system (chart and key) when we did the LEAF CLASSIFICATION activity.						
Question	10: Which of the following character	ristics wou	uld be appropriately used in developing a classification key for birds?			
a. '	where the bird was seen	b.	how plentiful that bird is in your neighborhood			
c	what food the bird eats	d.	color markings on the bird's head			
Question 11: The following animals have been classified into two groups according to their foot structure: deer, cow, cougar, elk, dog, and wolf. Develop a different way to classify them using a different structural characteristic. Make a tree map below to show how you would classify them.						
Question 12: Name two basic rules we use to classify things today in our modern times.						
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	1.		2.			
Question			2.			
Question	13:_Name 4 reasons for classifying liv	ring things	2. gs (hint: use your Classification Reading and Questions paper for help.)			
Question  Question	13: Name 4 reasons for classifying liv  1.  14: What do scientists do when a ne  A. Nothing. They're many organism:  B. Nothing. They wait until they finc  C. Scientists create a new classificat	ving things  2.  ew type of  s that do r  d at least 1  cion syster	2. gs (hint: use your Classification Reading and Questions paper for help.) 3. 4.			
Question Question	13: Name 4 reasons for classifying live.  1.  14: What do scientists do when a new A. Nothing. They're many organisms. B. Nothing. They wait until they find C. Scientists create a new classificat D. Scientists modify current classificat.	ving things  2.  Ew type of  s that do r  d at least 1  cion syster  cation syster  cation syster	2.  gs (hint: use your Classification Reading and Questions paper for help.)  3. 4.  f organism is discovered that does NOT fit into current classification systems?  not fit into current classification systems.  10 new species and then make a new place in the classification system.  2. 4.  3. 4.  4.			
Question Question	13: Name 4 reasons for classifying live.  14: What do scientists do when a new A. Nothing. They're many organisms. B. Nothing. They wait until they find C. Scientists create a new classificat D. Scientists modify current classificat D. In the past scientists used to classification system that uses signification system that uses signification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classification system that uses significant in the past scientists used to classificant in the past scientists used to	ving things  2.  Ew type of  s that do r  d at least 1  cion syster  cation syster	2.  gs (hint: use your Classification Reading and Questions paper for help.)  3. 4.  f organism is discovered that does NOT fit into current classification systems?  not fit into current classification systems.  no new species and then make a new place in the classification system.  em and discard old classification systems.  estems to make a place for the new organism.  g things into either the plant or animal kingdoms. Today it is customary to use a			

Question 8: Three groups of students classified ten leaves found on the school ground:

Question 17: Make a Tree map below to arrange the organisms provided in the word bank organisms according to kingdoms Animalia, Plantae, Fungi, Protista, Eubacteria, and Archaebacteria.

Donkey, Horse, Daffodil, Maple Tree, Amoeba, Human, Hydra, Salmonella, E. Coli, Mushroom, Truffles, Spider, Yeast, Crayfish, Dandelion, Mold, Bird, Euglena, Sea Sponge, Jelly Fish, Thermophile, Streptococcus aureus, Halophile, Cryophile, Slime Mold, Algae, Paramecium.

Question 18: Use the following classification key to identify the organisms below. Write the name under each organism as you identify it using the dichotomous key below.

Organism is symmetrical Organism is not symmetrical	Go to 2 Phylum Porifera
Organism is bilaterally symmetrical Organism is radially symmetrical	Go to 3 Go to 5
Organism has a spinal cord and vertebrae Organism has NO spinal cord or vertebrae	Phylum Chordata Go to 4
Organism has a hard exoskeleton Organism has NO hard exoskeleton	Phylum Arthropoda Phylum Annelida
Organism has five rays or arms Organism is transparent with many tentacles	Phylum Echinodermata Phylum Coelenterata

Transparent = See through.

The other structures you should know from class



Question 19: The ability to classify and name organisms has allowed scientists to communicate their findings with each other and study each other's work. Listed below are some developments that have led to our current knowledge about organisms:

- 1. Invention of the microscope
- 2. Aristotle classified all organisms as plants or animals.
- 3. A 5-kingdom classification system was developed.
- 4. DNA used to identify relationships between species.

Write the correct order of the above developments.

Question 20: What did you enjoy most about classification?