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Living Things • Guided Reading and Study

Classifying Organisms

This section tells how scientists divide living things into groups. It also describes how living things are named.

***Use Target Reading Skills**

Before you read, preview the red headings. In the graphic organizer below, ask a what, why, or how question for each heading. As you read, write the answers to your questions.

Classifying Organisms

Question			Answer	
Why do scientists classify?		Scientists classify because		
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Classifyi	ng Organisms (continued)	
Why Do S	icientists Classify?	
1. The pro	ocess of grouping things based on their similariti	es is
2. Why do	biologists use classification?	и
The scient	entific study of how living things are classified is	s called
	ollowing sentence true or false? Once an organism tknows a lot about that organism.	
he Namii	ng System of Linnaeus	
	ollowing sentence true or false? Linnaeus placed based on their features that he could observe.	organisms into
	aeus's naming system, called	
Is the fo	aeus's naming system, calledganism is given a two-part name. Illowing sentence true or false? A species is a gro ms that can mate with each other and produce of te and reproduce	oup of similar
Is the foorganism also ma	ganism is given a two-part name. ollowing sentence true or false? A species is a gro ms that can mate with each other and produce of	oup of similar fspring that can
Is the foo organism also man Felis con do mou	ganism is given a two-part name. bllowing sentence true or false? A species is a groms that can mate with each other and produce of te and reproduce. color is the scientific name for mountain lions. To	oup of similar fspring that can o which genus
Is the foorganism also mando mouse.	ganism is given a two-part name. bllowing sentence true or false? A species is a grouns that can mate with each other and produce of te and reproduce. color is the scientific name for mountain lions. To ntain lions belong? What is the species? Species: he letter of each sentence that is true about binors.	oup of similar fspring that can o which genus

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*Levels of Classification

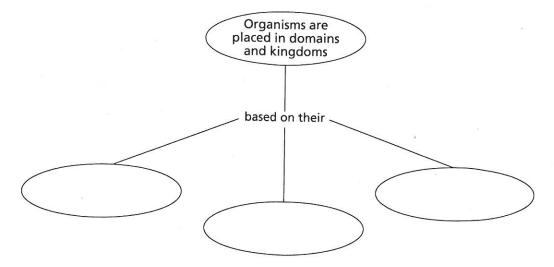
- 10. List the eight levels of classification used by modern biologists in order from the broadest level to the most specific level.
- 11. Is the following sentence true or false? The more classification levels that two organisms share, the more characteristics they have in common.
- 12. Look carefully at the figure Classifying an Owl in your textbook. What order does the great horned owl belong to?

*Domains and Kingdoms

13. List the three domains of living things.

a. ______ b. ____

14. Complete the concept map to show how organisms are placed into domains and kingdoms.



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CI	assifying Organisms (continued)					
15.	 5. Circle the letter of each sentence that is true about bacteria. a. Bacteria can be either autotrophic or heterotrophic. b. Bacteria are prokaryotes. c. Bacteria have a cell nucleus. d. Bacteria do not have nucleic acids. 					
16.	A dense area in a cell that contains nucleic ac	cids is a(n)				
17.	7. Is the following sentence true or false? Archaea have a similar chemical makeup to bacteria					
18.	8. Why are members of this domain called archaea, which comes from the Greek word for "ancient"?					
Do	main Eukarya					
19.	Is the following sentence true or false? Protists can be either unicellular or multicellular					
20.). How do protists differ from bacteria and archaea?					
21.	Is the following sentence true or false? Mushrooms, molds, mildew, and yeast are all fungi.					
22.	Circle the letter of each characteristic of fungi.					
	a. eukaryotes	b. prokaryotes				
	c. autotrophs	d. heterotrophs				
	Plants are; they can make their own food.					
24.	Is the following true or false? Plants provide for	ood for every heterotroph on Earth.				
25.	Circle the letter of each characteristic of animals.					
	a. unicellular	b. heterotrophs				
	c. eukaryotes	d. autotrophs				
26.	Is the following sentence true or false? All animals are multicellular.					