Section 18–3 Kingdoms and Domains (pages 457–461)

TEKS FOCUS: 8C Characteristics of kingdoms-archaebacteria, eubacteria, protists, fungi, plants, animals

This section describes the six kingdoms of life as they are now identified. It also describes the three-domain system of classification.

The Tree of Life Evolves (pages 457–458)

- 1. Is the following sentence true or false? The scientific view of life was more complex in Linnaeus's time.
- 2. What fundamental traits did Linnaeus use to separate plants from animals?
- 3. What type of organisms were later placed in the kingdom Protista?
- 4. Mushrooms, yeast, and molds have been placed in their own kingdom, which is called____
- 5. Why did scientists place bacteria in their own kingdom, the Monera?
- 6. List the two groups into which the Monera have been separated.
- b. _____ **7.** Complete the concept map. The Six-Kingdom Pearson Education, Inc. All rights reserved. System includes Animalia Archaebacteria \odot

a. _____

Name		

The Three-Domain System (page 458)

8. A more inclusive category than any other, including the kingdom, is the

- 9. What type of analyses have scientists used to group modern organisms into domains?
- **10.** List the three domains.
 - a. _____
 - b. ______ c. _____
- **11.** Complete the chart below.

CLASSIFICATION OF LIVING THINGS

Domain	Kingdom	Examples
	Eubacteria	Streptococcus, Escherichia coli
Archaea		
	Protist	
		Mushrooms, yeasts
	Plantae	
		Sponges, worms, insects, fishes, mammals

Domain Bacteria (page 459)

- **12.** Circle the letter of each sentence that is true about members of the domain Bacteria.
 - **a.** They are multicellular.
 - **b.** They are prokaryotes.
 - **c.** They have rigid cell walls.
 - **d.** The cell walls contain peptidoglycans.
- **13.** Is the following sentence true or false? All members of the domain Bacteria are parasites. ______

Name	Class	Date
Domain Archaea (page 459)		
14. Circle the letter of each sent	ence that is true about men	nbers of the domain Archaea.
a. They are unicellular.	c. They lack cell wa	alls.
b. They are eukaryotes.	d. They lack cell me	embranes.
15. Is the following sentence true	ue or false? Many members	of the domain Archaea can
survive only in the absence	of oxygen	
Domain Eukarya (pages 460)-461)	
16. Circle the letter of each sent	ence that is true about all th	ne members of the domain
Eukarya.		

- **a.** They have a nucleus.
- **b.** They are multicellular.
- **c.** They are heterotrophs.
- **d.** They have cell walls and chloroplasts.

Match each kingdom with the description that applies to members of that kingdom.

Kingdom	Description
17. Protista	a. They have cell walls of chitin.
18. Fungi	b. They have no cell walls or chloroplasts.
19. Plantae	c. They include slime molds and giant kelp.
20. Animalia	d. They include mosses and ferns.