Name

C Key Concepts

Introduction (page 510)

Red Algae (page 510)

and Green Algae (pages 510-515)

How do multicellular algae reproduce?

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Class

Section 20-4 Plantlike Protists: Red, Brown,

What are the distinguishing features of the major phyla of multicellular algae?

2. What are the most important differences among the three phyla of multicellular algae?

4. Why are red algae able to live at great depths?

1. What are seaweeds? \_\_\_\_\_

3. Red algae are members of the phylum \_\_\_\_\_\_.

Date \_\_\_\_\_

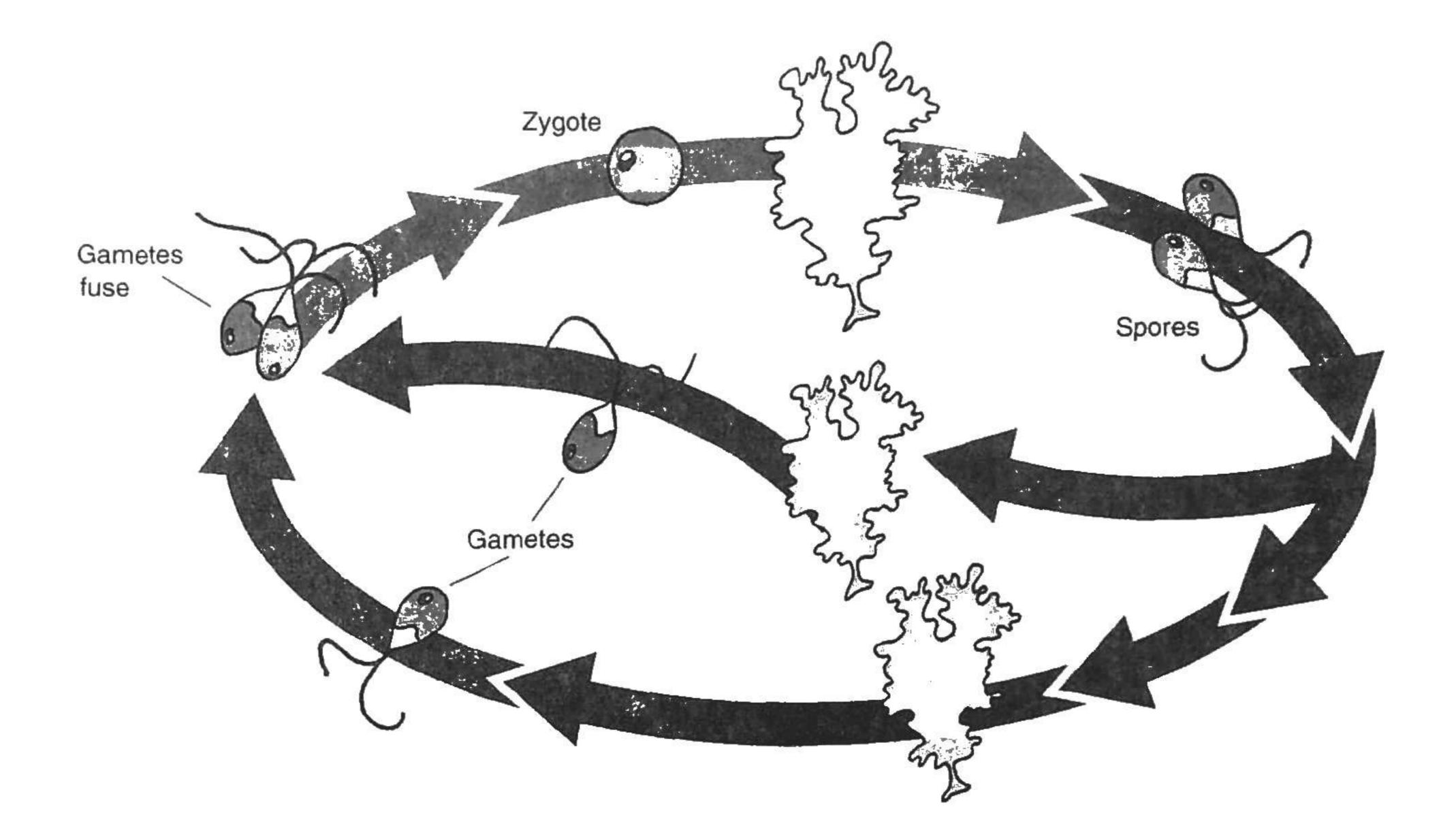
Naı	me Class Date			
14.	Where are brown algae commonly found growing?			
15.	What is the largest known alga?			
Gr	een Algae (pages 511-512)			
	Green algae are members of the phylum			
17.	What characteristics do green algae share with plants?			
18.	. What do scientists think is the connection between mosses and green algae?			
19.	The freshwater alga Spirogyra forms long threadlike colonies called			
20.	. How can the cells in a <i>Volvox</i> colony coordinate movement?			
21.	. "Sea lettuce" is the multicellular alga			
Re	production in Green Algae (pages 512-514)			
	What occurs in the process known as alternation of generations?			
23.	The single-celled <i>Chlamydomonas</i> reproduces asexually by producing			
	Circle the letter of each sentence that is true about sexual reproduction in			
	Chlamydomonas.			
	a. If conditions become unfavorable, cells release gametes.			
	<ul><li>b. Paired gametes form a diploid zygote.</li><li>c. A zygote quickly grows into an adult organism.</li></ul>			
	c. A zveore duickly grows into an adult organism.			

- d. The gametes are called male and female.
- 25. Complete the table about the generations in an organism's life cycle.

## **GENERATIONS IN A LIFE CYCLE**

Generation	Definition	Diploid or Haploid?
	Gamete-producing phase	
	Spore-producing phase	

26. Complete the life cycle of *Ulva* by labeling the sporophyte, the male gametophyte, and the female gametophyte. Also, label the places where the processes of fertilization, mitosis, and meiosis occur.



Human Uses of Algae (page 515)

- 27. Why have algae been called the "grasses" of the sea?
- 28. Through photosynthesis, algae produce much of Earth's \_\_\_\_\_\_.
- 29. What is the compound agar derived from, and how is it used?