

## Section 20–5 Funguslike Protists (pages 516–520)



**TEKS FOCUS:** 1B Choose materials wisely; 2A Plan investigations; 2B Collect data precisely; 2C Make inferences; 4B Cellular processes; **TEKS SUPPORT:** 1A Safe practices; 11D Microorganisms

*This section explains the similarities and differences between funguslike protists and fungi. It also describes the defining characteristics of the slime molds and water molds.*

### Introduction (page 516)

1. How are funguslike protists like fungi? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. How are funguslike protists unlike most true fungi? \_\_\_\_\_  
\_\_\_\_\_

### Slime Molds (pages 516–518)

3. What are slime molds? \_\_\_\_\_  
\_\_\_\_\_
4. Cellular slime molds belong to the phylum \_\_\_\_\_.
5. Is the following sentence true or false? Cellular slime molds spend most of their lives as free-living cells. \_\_\_\_\_
6. What do cellular slime molds form when their food supply is exhausted? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. What structure does a cellular slime mold colony produce, and what is that structure's at function \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Acellular slime molds belong to the phylum \_\_\_\_\_.
9. What is a plasmodium? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
10. The plasmodium eventually produces sporangia, which in turn produce haploid \_\_\_\_\_.

### Water Molds (pages 518–519)

11. Water molds, or oomycetes, are members of the phylum \_\_\_\_\_.
12. Water molds produce thin filaments known as \_\_\_\_\_.

13. What are zoosporeangia? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

14. Where are male and female nuclei produced in water mold sexual reproduction?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

15. Fertilization in water molds occurs in the \_\_\_\_\_.

**Ecology of Funguslike Protists** (page 519)

16. Why aren't there bodies of dead animals and plants littering the woods and fields you walk through? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

17. What are examples of plant diseases that water molds cause? \_\_\_\_\_

\_\_\_\_\_

**Water Molds and the Potato Famine** (page 520)

18. What produced the Great Potato Famine of 1846? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

19. What did the Great Potato Famine lead to? \_\_\_\_\_

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\_\_\_\_\_