

Chapter 21

Use with Section 2

REINFORCEMENT**● Modern Classification**

Answer the following questions using information from the textbook.

1. What are the ways scientists determine an organism's phylogeny? _____

2. What do the animal and fungi kingdoms have in common? _____

3. How are members of the animal kingdom different from members of the fungi kingdom?

4. Organisms belonging to the Kingdom Eubacteria, Kingdom Archaeobacteria, and some organisms in the Kingdom Protista are unicellular. What is it that places them into different kingdoms? _____

5. Suppose you are looking at some cells under a microscope. They are green. How can you classify these cells as either plants or eubacteria? _____

6. Put these Latin names in order from the most general to the most specific.

order—Diptera

a. _____

class—Insecta

b. _____

kingdom—Animalia

c. _____

phylum—Arthropoda

d. _____

species—*Drosophila melanogaster*

e. _____

family—Tephritidae

f. _____

genus—*Drosophila*

g. _____

7. The organism you have classified is a fruit fly. What is its scientific name? _____

