

## Section 22–5 Angiosperms—Flowering Plants (pages 569–572)



**TEKS FOCUS:** 3D Careers; 13A Structural and physiological adaptations; 13B Methods of reproduction, growth, and development; **TEKS SUPPORT:** 8A Classify organisms

*This section identifies the characteristics of angiosperms. It also explains what monocots and dicots are and describes the three categories of plant life spans.*

### Flowers and Fruits (page 569)

- Angiosperms are members of the phylum \_\_\_\_\_.
- Angiosperms have unique reproductive organs known as \_\_\_\_\_.
- During which geologic period did flowering plants first appear? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- In flowering plants, the seed is encased in a(an) \_\_\_\_\_.
- What is a fruit? \_\_\_\_\_
- Why is using fruit to attract animals one of the reasons for the success of flowering plants? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### Diversity of Angiosperms (pages 570–572)

- The seed leaves of plant embryos are called \_\_\_\_\_.
- Complete the table about classes of angiosperms.

**CLASSES OF ANGIOSPERMS**

Class	Common Name	Number of Seed Leaves	Examples
Monocotyledonae			
Dicotyledonae			

- Classify each of the following plants as either woody or herbaceous by writing the correct term on the line.
  - Rose shrubs \_\_\_\_\_
  - Oaks \_\_\_\_\_
  - Tomato plants \_\_\_\_\_
  - Sunflowers \_\_\_\_\_
  - Grape vines \_\_\_\_\_
  - Dandelions \_\_\_\_\_

10. Circle the letter of each plant feature that is characteristic of dicots.
- a. Parallel leaf veins
  - b. Floral parts in multiples of 4 or 5
  - c. Roots include a taproot
  - d. Vascular bundles scattered throughout stem
11. Woody plants are made primarily of what kind of cells? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
12. What characteristics do the stems of herbaceous plants have? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
13. Complete the table about plant life spans.

**PLANT LIFE SPANS**

Category	Definition	Examples
Annuals		
Biennials		
Perennials		

14. What structures do biennials produce in their first year of growth? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
15. What happens to biennials once their flowers produce seeds? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
16. Is the following sentence true or false? Most perennials have herbaceous stems.  
 \_\_\_\_\_