

# Structure and Function in Living Systems

Name: \_\_\_\_\_

## Seed Plants

Period: \_\_\_\_\_

Use Chapter 12, Section 3 of your textbook to answer the questions below. The word bank can be used to fill out the sentences below.

common   cotyledon   fertilization   pollen   seed coat   seeds   sexual  
sporophyte   water

### Section 3: Seed Plants (p.368)

- \_\_\_\_\_ 1. What types of plants produce seeds?
- a. gymnosperms and angiosperms
  - b. ferns and horsetails
  - c. nonvascular plants
  - d. mosses and liverworts

### Characteristics of Seed Plants (p.368)

2. There are \_\_\_\_\_ stages in the life cycle of a seed plant.
3. Young sporophytes are nourished and protected by \_\_\_\_\_ .
- \_\_\_\_\_ 4. Which of the following do not live independently in seed plants?
- a. stems
  - b. sporophytes
  - c. gametophytes
  - d. young leaves
5. What do the sperm of seedless plants need to reach the eggs? \_\_\_\_\_
6. Inside what structure do the sperm of seed plants form? \_\_\_\_\_
7. Seed plants are the most \_\_\_\_\_ plants on Earth.

### The Structure of Seeds (p.369)

8. The joining of a sperm and an egg is called \_\_\_\_\_ .
9. Because a male sex cell and a female sex cell joined together, this means that a seed is formed through the process of \_\_\_\_\_ reproduction.
- \_\_\_\_\_ 10. When do seeds form?
- a. after fertilization
  - b. when the sperm swims to the egg
  - c. before fertilization
  - d. before pollen forms
11. Look at Figure 2. A young plant in a seed is called a \_\_\_\_\_ .
12. Look at Figure 2. The \_\_\_\_\_ is the seed part where food is stored.
13. Look at Figure 2. The \_\_\_\_\_ is protection for a plant in a seed.
- \_\_\_\_\_ 14. What is an advantage of seeds over spores?
- a. Food is stored in the seed.
  - b. Animals leave seeds alone.
  - c. Seeds grow in damp places.
  - d. Seeds stay in one place.
- \_\_\_\_\_ 15. What do animals do that helps seeds?
- a. keep them from growing
  - b. leave them alone
  - c. spread them efficiently
  - d. destroy them

