

Chapter Test C**Classifying and Exploring Life****Multiple Choice**

Directions: On the line before each question, write the letter of correct answer.

- _____ 1. Which characteristic applies to all living things?
- A. They require energy.
 - B. They respond to light.
 - C. They are multicellular.
 - D. They reproduce by dividing.
- _____ 2. Which description identifies a genus?
- A. a group of similar phyla
 - B. a group of similar orders
 - C. a group of similar species
 - D. a group of similar domains
- _____ 3. Why might a scientist choose to use a compound microscope rather than an electron microscope?
- A. to study living specimens
 - B. to study nonliving specimens
 - C. to magnify things 100,000 times
 - D. to produce a three-dimensional image of an object

Completion

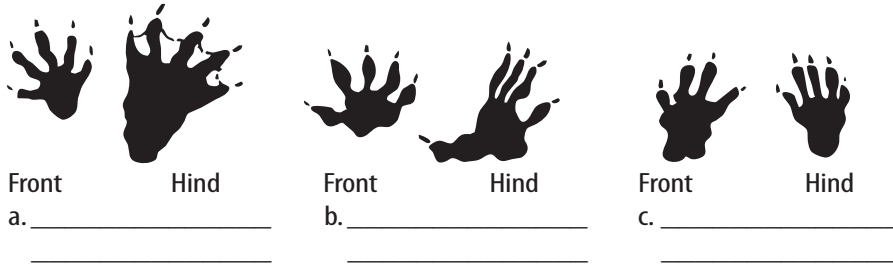
Directions: On each line, write the term or phrase that correctly completes each sentence.

4. Trees are members of the kingdom _____.
5. The kingdom _____ includes squirrels.
6. Mushrooms are members of the kingdom _____.
7. A(n) _____ uses a series of questions to identify an organism.
8. A branched diagram that shows the relationships among organisms is called a(n) _____.
9. _____ is a system for naming organisms by giving each organism a two-word scientific name.

Chapter Test C continued

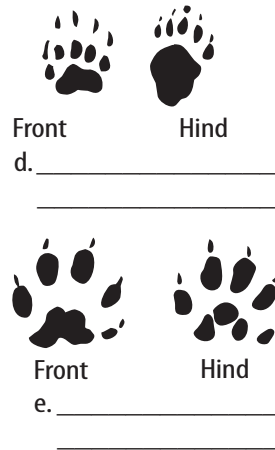
Interpreting a Diagram

Directions: Use the diagram to respond to each statement.



Dichotomous Key to Animal Tracks

1. a. toe print separate from sole print, go to 2
b. toe print attached to sole print, go to 3
2. a. toes with long claws, *Mephitis mephitis* (skunk)
b. toes with short claws, *Mustela vison* (mink)
3. a. regular-shaped toes, go to 4
b. irregular-shaped toes, *Didelphis virginiana* (opossum)
4. a. hind toes webbed, *Castor canadensis* (beaver)
b. hind toes not webbed, *Marmota monax* (woodchuck)



- 10.** Use the dichotomous key to identify each animal track. **Write** the scientific and common names of each animal on the lines provided.
- 11.** You discover an animal track that has short claw prints. **Determine** the additional information you would need to identify the animal that made the track.
- _____
- _____
- 12. Suggest** other characteristics that could be used to help identify the animals by their tracks.
- _____
- _____
- _____
- _____

Chapter Test C continued

Short Answer

Directions: Respond to each statement on the lines provided.

13. Compare the organization of a unicellular organism with the organization of a multicellular organism.

14. Assess whether light microscopes or electron microscopes would be more useful for the study of living organisms.

Concept Application

Directions: Respond to each statement on the lines provided. Use complete sentences.

15. Hypothesize about why scientific names include the organism's genus.

16. Evaluate this statement: A computer is a living thing.

17. Assess how the development of technology has affected how people classify living things.
