

Structure and Function in Living Systems

Name:

Vertebrates

Period:

Use Chapter 14, Section 4 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

bone cartilage feathers fur hair mucus scales skull vertebrae

Section 4: Vertebrates

Vertebrate Characteristics (p.444)

_____ 1. Which of the following structures is found only in vertebrates?
a. skin b. nerves c. tissue d. backbone

2. _____ is a flexible material that is sometimes replaced by bone.

Body Symmetry (p.444)

Match the correct description with the correct term. Write the letter in the space provided.

- | | |
|--------------------|--------------|
| _____ 3. the back | a. dorsal |
| _____ 4. the belly | b. anterior |
| _____ 5. the head | c. posterior |
| _____ 6. the tail | d. ventral |



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Body Coverings (p.445)

7. _____ cover the bodies of fish and reptiles.
8. _____ is a slippery fluid that covers amphibians and fish.
9. _____ are the body covering that keeps body temperature stable in birds.
10. _____ and _____ are body coverings that keep body temperature stable in mammals.

Support of the Body (p.445)

11. The _____ of an endoskeleton surrounds and protects the brain.
12. The _____ of the backbone surround and protect the spinal cord.
13. A _____ provides a place for muscle tissue to attach.

Respiratory Systems (p.446)

- _____ 14. What is the main respiratory organ in fish, shown in Figure 4?
a. lungs b. water c. gills d. mouth
- _____ 15. Why are the main respiratory organs of land vertebrates inside the body?
a. to keep them clean c. to protect them from infection
b. to keep them from drying out d. to provide body support
- _____ 16. What is the main respiratory organ of a frog, shown in Figure 5?
a. heart b. arteries c. veins d. lungs

turn over for more questions

