

Section 27-3 Annelids (pages 694-699)



Key Concepts

- What are the defining features of annelids?
- What are the characteristics of the three classes of annelids?

Introduction (page 694)

1. Of what phylum are earthworms a member? _____
2. What evidence is there that annelids are more closely related to clams and snails than to flatworms or roundworms? _____

What Is an Annelid? (page 694)

3. What is a septum? _____

4. Attached to each annelid segment are bristles called _____.
5. Annelids are among the simplest animals to have a true _____.

Form and Function in Annelids (pages 695-696)

6. How is the pharynx used differently in carnivorous species than in annelids that feed on decaying vegetation? _____

7. What is a closed circulatory system? _____

8. What is a gill? _____

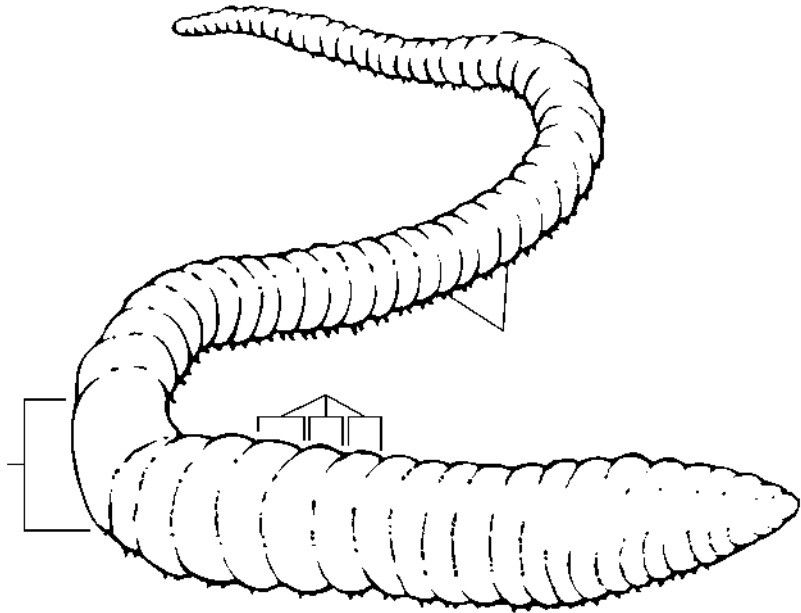
9. How do aquatic annelids respire differently than land-dwelling annelids? _____

10. How do annelids keep their skins moist? _____

11. What are the two major groups of body muscles in annelids called?
 - a. _____
 - b. _____
12. Marine annelids have paddlelike appendages called _____.

13. What is a clitellum, and what is its function? _____

14. Write labels on the illustration of the annelid for each of the features pointed to.



Groups of Annelids (pages 697-698)

15. Complete the table about common types of oligochaetes.

OLIGOCHAETES

Type of Oligochaete	Description	Habitat
	Long, pinkish-brown worms with few setae	
	Red, threadlike worms with few setae	

16. Circle the letter of each sentence that is true about leeches.

- a. They suck blood and body fluids from their hosts.
- b. Most live in moist, tropical habitats.
- c. They are typically external parasites.
- d. All are carnivores that feed on snails.

17. Circle the letter of each sentence that is true about polychaetes.

- a. They typically have only a few setae.
- b. They have paired, paddlelike appendages tipped with setae.
- c. They suck the blood of their host.
- d. They are marine annelids.

18. What annelids do polychaetes include? _____

Ecology of Annelids (page 699)

19. How do the tunnels of earthworms affect other organisms? _____

20. Circle the letter of each sentence that is true about annelids.

- a. Earthworms are important to the diet of birds.
- b. Annelids bring minerals from deep soil layers to the surface.
- c. Marine annelids spend their lives burrowing through soil.
- d. Annelid larvae form part of the animal plankton.

Reading Skill Practice

A flowchart can help you remember the order in which a process or series of events occurs. On a separate sheet of paper, make a flowchart for the process in earthworms of feeding and digestion, described on page 695 in your textbook. For more information about flowcharts, see Organizing Information in Appendix A of your textbook.