

# Chapter 26

## Sponges, Cnidarians, Flatworms, and Roundworms

### Reinforcement and Study Guide

#### Section 26.1 Sponges

In your textbook, read about sponges.

Answer the following questions.

1. How does the name *Porifera* relate to the structure of a sponge?

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2. How do sponges obtain food from their environment?

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3. Describe a sponge's body plan.

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Complete the table by writing a cell type or structure in sponges that fits each description.

Type of Cell or Structure	Description
4.	Aid in reproduction and nutrient transport Help produce spicules
5.	Form the outside surface of body Contract to close pores
6.	Line interior of sponge's body Use flagella to draw water through pores
7.	Found in jellylike substance between layers Make up sponge's support system

Use each of the terms below just once to complete the passage.

external buds      eggs      hermaphroditic      internal fertilization  
larvae      sexual      sperm

Sponges sometimes reproduce asexually by forming **(8)** \_\_\_\_\_ . Being

**(9)** \_\_\_\_\_ , a sponge can also produce both **(10)** \_\_\_\_\_ and sperm. During

**(11)** \_\_\_\_\_ reproduction, **(12)** \_\_\_\_\_ from one sponge fertilize the eggs

of another. Fertilization can be external, but **(13)** \_\_\_\_\_ is more common.

Free-swimming **(14)** \_\_\_\_\_ settle and develop into sessile adults.