

Focus

Overview

Before beginning this section review with your students the objectives listed in the Student Edition. This section explains the characteristics and life history of sponges. Students will learn how sponges receive nutrients, reproduce, and how their body is structurally supported.

Bellringer

Challenge students to think about different structures for different lifestyles. Ask them to describe on paper how an animal that cannot move is able to feed and protect itself. Have them imagine that they are stuck on the floor and cannot ever move again. How will they get food? How will they protect themselves from large mobile predators? (Answers may vary. Some students might say that they would just wait until food came close enough, and then they would reach out and grab them. For protection they might curl up into a ball if a predator comes too close.) TAKS 2 Bile 15A, TAKS 3 Bile 7B

Motivate

Demonstration

Basic

Four a mixture of pebbles and water through a spaghetti strainer, trapping the pebbles inside the strainer. Show the pebbles to your students, and tell them to imagine that the pebbles are food particles. Explain that the collars of the choanocytes that line the inside of the sponge trap food particles in water in a similar manner. Bile 3E

TEKS/TAKS

pp. 618–619

Student Edition

TAKS Obj 2 Bile 8C
TAKS Obj 2 Bile 15A
TAKS Obj 3 Bile 7B
TEKS Bile 7B, 8C, 15A

Teacher Edition

TAKS Obj 1 Bile/TPC 2C, 2D
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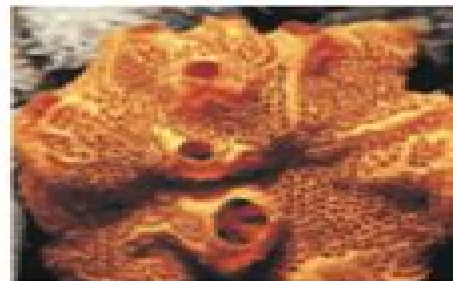
Objectives

- Summarize the general features of sponges. [8C](#) [TAKS 2](#)
- Describe how sponge cells receive nutrients. [15A](#) [TAKS 2](#)
- Describe how a sponge's body is structurally supported. [15A](#) [TAKS 2](#)
- Distinguish between sexual and asexual reproduction in sponges. [15A](#) [TAKS 2](#)

Key Terms

oella
oscula
osculum
choanocyte
amoebocyte
spongin
spicule
gemmule

Figure 1. Sponges. The small openings in this sponge's body are oella. The larger openings are oscula.



The Simplest Animals

Sponges are so unlike other animals that early naturalists classified them as plants. It wasn't until the mid-1800s that scientists using improved microscope technology began studying sponges closely. Scientists then realized that sponges are animals. The bodies of most sponges completely lack symmetry and consist of little more than masses of specialized cells embedded in a gel-like substance called mesohel (MEY-oh-lee). You could say that a sponge's body is somewhat like chopped fruit in gelatin. The chopped fruit represents the specialized cells, and the gelatin represents the mesohel.

Sponge cells are not organized into tissues and organs. However, they do have a key property of all animal cells—cell recognition. A simple lab experiment can demonstrate that sponge cells can recognize other sponge cells. A living sponge can be passed through a fine silk mesh, causing the individual cells to separate. On the other side of the mesh, the individual sponge cells will recombine to form a new sponge.

Sponges have a body wall penetrated by tiny openings, or pores, called **oella** (OH-lee-oh), through which water enters. The name of the phylum, Porifera, refers to this system of pores. Sponges also have larger openings, or **oscula**, through which water exits. You can see the many oscula of the sponge shown in Figure 1. Sponges are also **sessile** (SESS-ee-lee). Early in their lives, sponges attach themselves firmly to the sea bottom or some other submerged surface, like a rock or coral reef. They remain there for life. Sponges can have a diameter as small as 1 cm (0.4 in.) or as large as 2 m (6.6 ft). [1](#)

Most sponges are bag-shaped and have a large internal cavity. One or more oscula (singular, osculum) are located in the top of

Evolutionary Milestone

1 Multicellularity



The bodies of all animals, including sponges (phylum Porifera), are multicellular—made of many cells. Although the sponge is composed of several different cell types, these cells show only a small degree of coordination with each other.

618

Chapter Resource File

- Lesson Plan [Screen](#)
- Directed Reading [Basic](#)
- Active Reading [Screen](#)



Transparencies

TT Bellringer



One-Step Planner CD-ROM

- Reading Organizers [Basic](#)
- Reading Strategies [Basic](#)

Section 1 Sponges Answers

Akash Tiwari

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Section 1 Sponges Answers

1. Understanding the eBook Section 1 Sponges Answers
 - The Rise of Digital Reading Section 1 Sponges Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 1 Sponges Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Section 1 Sponges Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 1 Sponges Answers
 - Personalized Recommendations
 - Section 1 Sponges Answers User Reviews and Ratings
 - Section 1 Sponges Answers and Bestseller Lists
5. Accessing Section 1 Sponges Answers Free and Paid eBooks
 - Section 1 Sponges Answers Public Domain eBooks
 - Section 1 Sponges Answers eBook Subscription Services
 - Section 1 Sponges Answers Budget-Friendly Options
6. Navigating Section 1 Sponges Answers eBook Formats

- ePub, PDF, MOBI, and More
- Section 1 Sponges Answers Compatibility with Devices
- Section 1 Sponges Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 1 Sponges Answers
 - Highlighting and Note-Taking Section 1 Sponges Answers
 - Interactive Elements Section 1 Sponges Answers
- 8. Staying Engaged with Section 1 Sponges Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 1 Sponges Answers
- 9. Balancing eBooks and Physical Books Section 1 Sponges Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 1 Sponges Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Section 1 Sponges Answers
 - Setting Reading Goals Section 1 Sponges Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 1 Sponges Answers
 - Fact-Checking eBook Content of Section 1 Sponges Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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