

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
- TAKS Obj 2 Bile 8C, 15A
- TAKS Obj 3 Bile 7B
- TEKS Bile 2E, 5C, 7B, 8C, 15A
- TEKS Bile/TPC 2C, 2D

Objectives

- Summarize the general features of sponges. 8C 15A 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
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-ehl). 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-ee-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-uhl). 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

BM King

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'BM King' text.

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Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 *FDA's approval of the Today contraceptive sponge* United States. Congress. House. Committee on Government Operations. Intergovernmental Relations and Human Resources Subcommittee, 1984 *Nursing Model Question Paper (Part 1) - 2024* Akash Tiwari, 2024-01-01 Nursing Model Question - Paper Part 1 - 2021 Akash Tiwari, Books prepared as per NORCET AIIMS RRB ESIC DSSSB JIPMER PGIMER GMERS COH GUJARAT etc 2999 Practice MCQs with without Rationals FAQs IMP Topics are Covered Highly Successful Team Chosen Contents Also Available in English Gujarati Hindi *Nursing Competitive Exam 2021 - PART 1* AKASH TIWARI (AT), 10 000 MCQs focused on Competitive Exams Team of Experienced and specialist professionals to design and offer best quality Competitive material for Healthcare professional to excel in Competitive exams and also increase the Patient Safety standards in the country Svastham 24/7 - QA Bank (Part 1) Akash Tiwari, 2020-06-09 More than 2499 MCQs focused on Competitive Exams Team of Experienced and specialist professionals to design and offer best quality Competitive material for Healthcare professional to excel in Competitive exams and also increase the Patient Safety standards in the country *Nature-Based Solutions for Flood Mitigation* Carla S. S. Ferreira, Zahra Kalantari, Thomas Hartmann, Paulo Pereira, 2022-05-30 This book provides an overview of the typical nature based solutions NBS used for flood mitigation at different scales and in different areas e g from catchment to hillslope scale from urban to coastal areas NBS can provide several ecosystem services such as water regulation and water quality enhancement and as such offer relevant technical solutions to complement typical grey infrastructures to mitigate flood hazard and water quality problems In recent years political awareness and interest from the scientific community have led to increasing implementation of NBS worldwide In light of this trend this book provides valuable insights into the environmental aspects of NBS particularly their effectiveness for flood and pollution mitigation and discusses socio economic aspects related to the implementation of NBS including regulatory aspects cost and citizens perceptions of NBS Compiling the latest research the book furthers our understanding of the role of NBS for flood mitigation and its relation to environmental aspects to guide scientists and stakeholders in future NBS projects It is intended for the scientific community and stakeholders such as spatial planners and landscape managers Chapter Nature based solutions for flood mitigation and resilience in urban areas is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *Biology Workbook For Dummies* Rene Fester Kratz, 2012-05-08 From genetics to ecology the easy way to score higher in biology Are you a student baffled by biology You re not alone With the help of Biology Workbook For Dummies you ll quickly and painlessly get a grip on complex biology concepts and unlock the mysteries of this fascinating and ever evolving field of study Whether used as a complement to Biology For Dummies or on its own Biology Workbook For Dummies aids you in grasping the fundamental aspects of Biology In plain English it helps you understand the concepts you ll come across in your biology class such as

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Sponge City Hybrid Infrastructure Zuzana Vranayova,Martina Zelenakova,Abdelazim Negm,2023-11-02 This book focuses on the access to water in the building and its surroundings to infer the mutual interaction and the complex interconnection of green blue infrastructures This book is a tool for understanding the multifunctional functionality of urban waste water to recognize their efficient and strategically useful potential in the form of aesthetic and functional architectural elements vertical gardens waterproof roof systems rain gardens retention rainwater recirculation tanks biomarkers for wastewater treatment and other progressive technologies and technical solutions The originality of the proposed book and the innovation of the proposed objectives lies in the complexity and interdisciplinary of the problem solved with clear continuity and utilization in professional building environmental and psychosocial practice Understanding the quality of life as a category influenced by several objective and subjective conditions this manuscript draws up recommendations on how to build green buildings progressively supplied with water connecting infrastructures from existing buildings administrative or training

Elementary Zoology (Teacher Guide) Master Books,2017-04-25 What elementary student doesn't love animals Encourage your child's love for animals with this compelling informative zoology curriculum features a biblical worldview Elementary Zoology combines the study of both land animals and sea creatures complete with trips to the zoo and aquarium In addition to all of the scientific facts and trivia it teaches the class also includes exciting hands on activities that will delight children Our unique package gives the teacher an easy to use daily plan to turn these wonderful resources into a complete year of learning your student is going to love

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Ecological Studies of Sockeye Salmon and Related Limnological and Climatological Investigations, Brooks Lane, Alaska, 1957 Theodore R. Merrell,1964 Ecological studies on the fresh water phases of the life history of sockeye salmon and studies on related limnology and climatology were made at Brooks Lake Alaska in 1957 Data are presented and interpreted on adult sockeye salmon spawning distributions and behavior age sex length fecundity and bear predation on juvenile sockeye salmon ages food growth migration from the lake relative abundance and distribution in the lake and on climatological and limnological

factors that may influence sockeye salmon behavior and abundance
Army, 1969 *The Living Ocean Teacher's Guide* ,

Technical Manual United States Department of the

Section 1 Sponges Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. Section 1 Sponges Answers : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Section 1 Sponges Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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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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