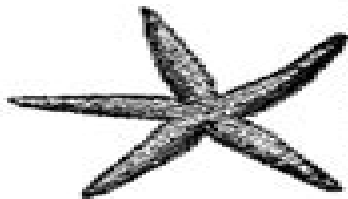


Echinoderms



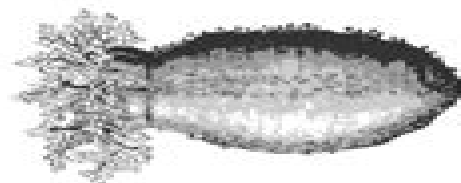
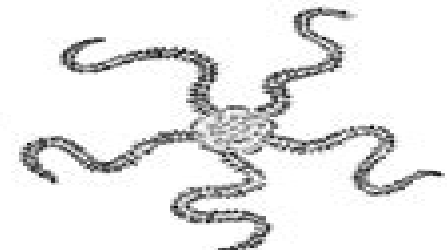
Starfish, sand dollars, and sea urchins all belong to a group (phylum) of invertebrates known as echinoderms. The word "echinoderm" means spiny skin, which describes most of the organisms in this phylum. Echinoderms all live in water and are predators or scavengers; the underside of the animal has a mouth and their arms are used to pry open shelled prey such as mollusks.

One of the more unusual aspects of echinoderms is their ability to regenerate lost arms. A starfish that loses an arm can grow a new one if just a couple of weeks. Echinoderms are radially symmetrical, which is obvious from the way their stars (which can vary in number) radiate from the mouth opening.

Echinoderms are usually found in the shallow water near the shore. They spend much of the time resting in the sand or on rocks. Starfish can move using specialized structures called tube feet. Each arm of the starfish has hundreds of tubes with suckers on them to help them navigate over rocks and sand. The suction of the tube feet is powerful enough to open even the most stubborn clam shell. The movement and circulation of a sea star is accomplished by canals within the animal that fill with water, a system called the water vascular system.

Echinoderms do not have a highly developed nervous system, but they do have a nerve ring that surrounds the mouth and helps to coordinate their movements and responses. Sensory cells on their arms gather information about their surroundings, such as light and temperature to help the organism respond to its environment.

Starfish are an important part of shoreline ecosystems. In one experiment, a starfish (*Pisaster ochraceus*) was removed from an area. This starfish was a predator of many mussel species in that location. With the starfish removed, it was thought that the mussels would achieve greater diversity. On the contrary, with the top predator gone, one particular species of mussel came to dominate the community and crowded out all of the other species. In this sense, the starfish is known as a "keystone" species, which is an animal that is important for maintaining a community's biodiversity. A relative of the starfish, the sea urchin, is an important part of kelp communities where sea otters live.



There are several distinct groups of echinoderms related to sea stars (also known as starfish). Sea urchins and sand dollars are grouped together because they have large solid plates that form around their soft bodies. Sea urchins have hundreds of spines sticking off of their bodies, which can serve as a defense against predators. Sand dollars tend to be flat and will spend most of their time submerged under the sand in shallow waters.

Brittle stars are a group of echinoderms found mainly on coral reefs. They have very long flexible arms that can break off (and regenerated later). These broken arms will continue to wiggle and move to distract a predator and allow the organism to escape. Sea cucumbers are odd little creatures that resemble a cucumbers, hence their name. Sea cucumbers usually feed on dead or decaying organic matter on the ocean floor.

Anatomy of a Starfish - match the letter to the description

1. The anus is found on the top of a starfish, this is where wastes are removed. _____
2. The mouth is on the opposite side of the anus, food is taken in here: _____
3. Large and centrally located between the mouth and anus is the stomach, where food is digested: _____
4. The ring canal surrounding the stomach, part of the starfish's water vascular system: _____
5. The radial canal extends from the ring canal and into the starfish's arms, also part of the vascular system: _____
6. Attached to the radial canal are the tiny tube feet with suckers: _____
7. Digestive glands are located within the arms of the starfish, chemicals help break down food: _____

4 Echinoderms Answer Key

Wenbin Ji



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Table of Contents 4 Echinoderms Answer Key

1. Understanding the eBook 4 Echinoderms Answer Key
 - The Rise of Digital Reading 4 Echinoderms Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 4 Echinoderms Answer Key
 - 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 4 Echinoderms Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 4 Echinoderms Answer Key

- Personalized Recommendations
 - 4 Echinoderms Answer Key User Reviews and Ratings
 - 4 Echinoderms Answer Key and Bestseller Lists
5. Accessing 4 Echinoderms Answer Key Free and Paid eBooks
- 4 Echinoderms Answer Key Public Domain eBooks
 - 4 Echinoderms Answer Key eBook Subscription Services
 - 4 Echinoderms Answer Key Budget-Friendly Options
6. Navigating 4 Echinoderms Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - 4 Echinoderms Answer Key Compatibility with Devices
 - 4 Echinoderms Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 4 Echinoderms Answer Key
 - Highlighting and Note-Taking 4 Echinoderms Answer Key
 - Interactive Elements 4 Echinoderms Answer Key
8. Staying Engaged with 4 Echinoderms Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 4 Echinoderms Answer Key
9. Balancing eBooks and Physical Books 4 Echinoderms Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 4 Echinoderms Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 4 Echinoderms Answer Key
- Setting Reading Goals 4 Echinoderms Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 4 Echinoderms Answer Key

- Fact-Checking eBook Content of 4 Echinoderms Answer Key
- 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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