

Marine Biology Lab: Sea Star Dissection



Background: Echinoderms are radially symmetrical animals that only live in the sea. *Echinoderm* means "spiny skin" in Greek. There are over 6,000 species and they usually have five appendages (arms or rays). As larvae, echinoderms are bilaterally symmetrical but, become radially symmetrical as they mature. Sea stars (class *Asteroidea*) are sometimes called starfish, though they are not real fish. The sea star's skin looks spiny if you examine it, with different types of growths on the surface. Some bumps, called dermal branchiae, are used to absorb oxygen. Pedicellaria are pincher-like organs used to clean the surface of the skin of parasites. Under the skin the skeleton is made of calcium plates called ossicles. Each sea star has hundreds of tiny feet on the bottom of each ray. These are tube feet, or podia. These tiny feet are filled with sea water. The vascular system of the sea star is also filled with sea water. By moving water from the vascular system into the tiny feet, the sea star can make a foot move by expanding it. This is how sea stars move around. Muscles within the feet are used to retract them. Each ray of a sea star has a light sensitive organ called an eyespot, which can detect light and general direction.

Purpose: To examine the internal and external anatomy of the sea star.

Materials: Dissecting pan, dissecting tools, safety glasses, preserved sea star

Procedure:

Aboral Surface

1. Obtain a preserved starfish and rinse off any preservative with water.
2. Place the starfish in the dissecting pan with its dorsal or aboral (top) surface upward.
3. Locate the central disc in the center of the starfish. Count and record the number of arms or rays your starfish has. _____
4. Locate the small, round hard plate called the madreporite on top of the central disc. Water enters through this into the water vascular system. Color the central disc yellow, the arms orange, and madreporite green on Figure 1.
5. Feel the upper surface of the starfish for spines. These spines protect the starfish and are part of their internal skeleton. Color these blue on Figure 1.
6. Look at the tip of each arm and find the eyespot. Color this red on Figure 1.

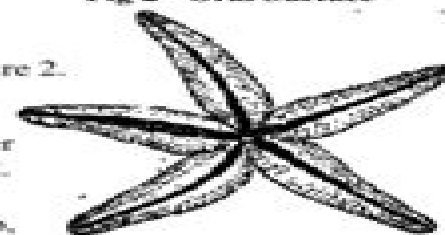
Fig 1 - Aboral Surface



Oral Surface

7. Turn the starfish over to its oral or ventral surface (underside).
8. Locate the mouth in the center of the central disc. Find the ring of oral spines surrounding the mouth. Color the mouth yellow and the oral spines red on Figure 2.
9. Find the groove that extends down the underside of each arm. This is called the ambulacral groove. Color this blue on Figure 2.
10. Feel the numerous, soft tube feet inside each groove. These are part of the water vascular system & aid in movement and feeding. Color these green on Figure 2.

Fig 2 - Oral Surface



Internal Anatomy

11. With the starfish's aboral surface up, cut off the tip of a ray. Cut along lines a, b, and c (as in Figure 3) and then remove this flap of skin.
12. Inside the arm, locate two long digestive glands called the pyloric caeca. These make enzymes to digest food in the stomach. Color these purple in Figure 4.
13. Cut a circular flap of skin from the central disc. (You will have to also cut around the madreporite in order to remove this flap.) Observe the stomach under the central disc. Color this orange on Figure 4.

Fig 3 - Cuts in Arm



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Explorations in Basic Biology Stanley E. Gunstream, John Stanley Babel, 1972 *Biology*, 1998 *Resources in Education*, 1992 **Illinois Chemistry Teacher**, 1992 **Turtlex News**, 1923 **Resources in Education**, 1992
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Table of Contents Marine Biology Lab Sea Star Dissection Answers

1. Understanding the eBook Marine Biology Lab Sea Star Dissection Answers
 - The Rise of Digital Reading Marine Biology Lab Sea Star Dissection Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Marine Biology Lab Sea Star Dissection 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 Marine Biology Lab Sea Star Dissection Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Marine Biology Lab Sea Star Dissection Answers
 - Personalized Recommendations

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