



## 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.

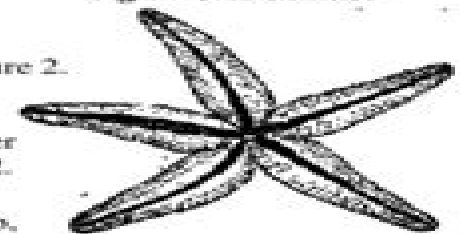
Fig 1 - Aboral Surface



#### 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.

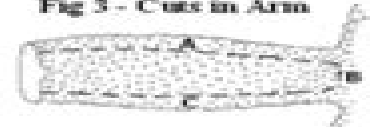
Fig 2 - Oral Surface



#### 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



# Marine Biology Lab Sea Star Dissection Answers

**Camilla Rothe**



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*Resources in Education*, 1992    **The Software Encyclopedia**, 1988    **Scientific and Technical Books and Serials in Print**, 1984    *DAV*, 1984    [International Books in Print](#), 1991    [Starfish](#) John M. Lawrence, 2013-03-15 The most complete illustrated scientific review of starfish ever published Among the most fascinating animals in the world's oceans are the more than 2 000 species of starfish Called Asteroids by scientists who study them after their taxonomic name Asteroidea or sea stars in some parts of the world starfish are easily recognized because of their star like form Starfish is a comprehensive volume devoted to the integrative and comparative biology and ecology of starfish Written by the world's leading experts on starfish the integrative section covers topics such as reproduction developmental biology and ecology larval ecology and the ecological role of starfish as a group The comparative section considers the biology and ecology of important species such as *Acanthaster planci* *Heliaster helianthoides* *Asterias amurensis* and *Pisaster ochraceus* Replete with detailed scientifically accurate illustrations and the latest research findings Starfish examines the important role of these invertebrates in the marine environment a topic of great interest because of their impact on the food web As major predators that are able to evert their stomach and wrap it around their prey starfish can have a significant impact on commercial fisheries Starfish are of interest not only to echinoderm specialists but also to marine biologists and invertebrate zoologists in general and increasingly to the medical community A starfish's ability to regenerate body parts is almost unequalled in the animal world making them ideal models for basic science studies on the topic Contributors Charles D Amsler Bill J Baker Mario Barahona Michael F Barker Maria Byrne Juan Carlos Castilla Katharina Fabricius Patrick Flammang Andrew S Gale Carlos F Gaymer Jean Francois Hamel Elise Hennebert John H Himmelman Michel Jangoux John M Lawrence Tatiana Manzur James B McClintock Bruce A Menge Annie Mercier Anna Metaxas Sergio A Navarette Timothy D O Hara John S Pearse Carlos Robles Eric Sanford Robert E Scheibling Richard L Turner Carlos Renato R Ventura Kristina M Wasson Stephen A Watts  
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