

Lab: Starfish Dissection

Purpose: Examine the external and internal anatomy of the starfish.

Materials:

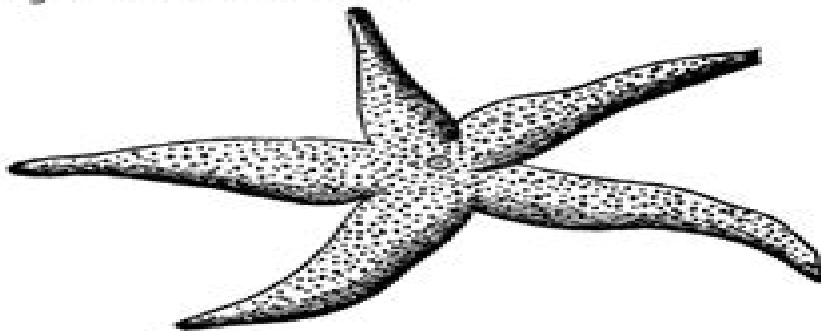
Preserved starfish, dissecting pan, scissors, scalpel, forceps, T-pins, pencil, lab apron, safety glasses

Procedure:

I. 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) Observe the starfish and determine its symmetry.
- 4) Locate the central disc in the center of the starfish. **Count and record the number of arms or rays the starfish has.**
Number of arms: _____
- 5) Locate the small, round hard plate called the madreporite on top of the central disc. Water enters through this into the water vascular system. **Label the central disc, arms, and madreporite on Figure 1.**
- 6) Feel the upper surface of the starfish for spines. These spines protect the starfish and are part of their internal skeleton. **Label these on figure 1.**

Figure 1 -Aboral Surface

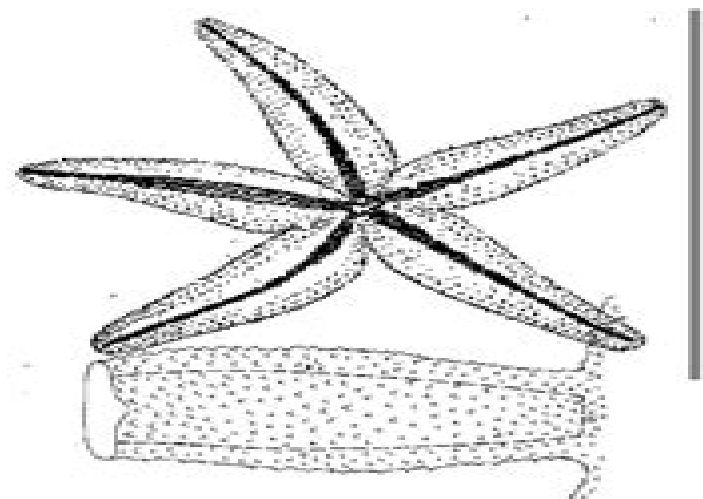


II. Oral Surface

- 7) Turn the starfish over to its ventral or oral surface (underside).
- 8) Locate the mouth in the center of the central disc. Find the ring of oral spines surrounding the mouth. **Label these on figure 2.**
- 9) Find the groove that extends down the underside of each arm. This is called the ambulacral groove. **Label this 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. **Label these on Figure 2.**

Figure 2 - Oral Surface

III. Internal Anatomy



Starfish Dissection Answers

**Cindy H. Nakatsu, Robert V.
Miller, Suresh D. Pillai**



Starfish Dissection Answers:

Biology, 1998 **Turtos News**, 1923 **Biology** Christian Liberty Press, Robert Glotzhaber, 2005-05-11 Teacher's Guide to accompany Biology A Search for Order in Complexity This teacher's guide will equip instructors to lead their students through the various experiments that are featured in the student laboratory manual **Educators Guide to Free Internet Resources** Educators Progress Service, 2005-04 To provide our customers with a better understanding of each title in our database we ask that you take the time to fill out all details that apply to each of your titles Where the information sheet asks for the annotation we ask that you provide us with a brief synopsis of the book This information can be the same as what may appear on your back cover or an entirely different summary if you so desire Zoology: Practical Buel Preston Colton, 1906 **The Developmental and Reproductive Biology of a Brooding Starfish, Leptasterias Hexactis (Stimpson)**. Fu-Shiang Chia, 1967 **University of the State of New York Bulletin**, 1902 *The Silent Vow* Gary Drewes, 2003-11 This how to manual teaches a useful skill in psychic sensing called Directed Intuition It involves merely shifting your awareness much like you routinely shift attention to recall a memory You can use the skill at any time with eyes open and engaged in activities The unique training method has proven effective both in classes and self instruction The author devised the concept in the mid 1960s after years of developing his own sensing ability by experiment and by 69 began teaching classes for several years This updated book first edition 1970 has abundant examples of remarkable results and swift learning even some within a few minutes The lessons are a third of the text The rest discusses expected achievements mental impressions during training and applications for the skill in diverse fields including business foreign affairs and relationships This book is intended for 1 people desiring to enrich their lives with psychic insight 2 disciplined researchers into psychic phenomena and 3 investigators of subjects where needed data cannot be obtained by other means **Zoology, descriptive and practical** Buel Preston Colton, 1903 **Bulletin**, 1902 Manual of Environmental Microbiology Cindy H. Nakatsu, Robert V. Miller, Suresh D. Pillai, 2016-05-02 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments

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