

Starfish Dissection

Part A. External anatomy (aboral surface)

1. Place your starfish in the dissecting tray so the dorsal (aboral) surface faces upward.
2. There is a central disk in the center of the starfish and the five arms or rays that extend from it.
3. There are many spines scattered over the surface of the arms and the central disk. These spines are attached to the plates of the starfish skeleton just under the skin. These plates are called ossicles and make up the endoskeleton of the starfish.
4. Among the spines are skin gills and small pincer-like pedicellarias. The skin gills are the respiratory structures of the starfish and the pedicellarias keep the skin gills free of debris. You can see these structures on the diagram below.



5. Locate the small, round, wart like madreporite plate on top of the central disc. Water enters through this structure into the water vascular system of the starfish.
6. The tip of each arm has a small eyespot and a single tentacle used to detect light, touch and light pressure.
7. Label the central disc, arm, madreporite plate and eyespot on figure 1.

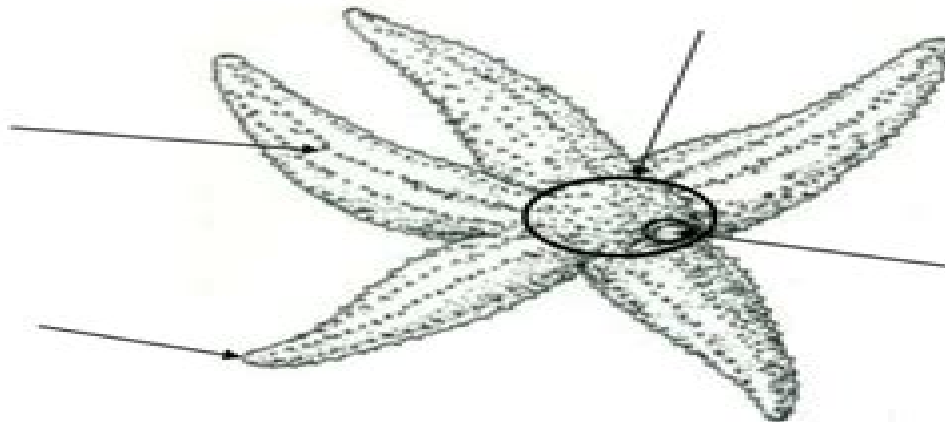


Figure 1

Part B. External anatomy (oral surface)

8. Turn the starfish over to its ventral (oral) surface.
9. Locate the mouth in the center of the central disc. Find the ring of oral spines surrounding the mouth. These spines filter what go into and out of the starfish.

Starfish Dissection Manual

Joacim Rocklöv



Starfish Dissection Manual:

A Manual of Practical Zoology: INVERTEBRATES PS Verma, 2010-12 The book provides discussion on all aspects of Invertebrates as covered in Practical Zoology Beginning with general techniques of preparation of cultures of Protozoa microscopic slides and laboratory regents it also covers in tabular and detailed form recent classification of various invertebrate phyla with examples of each order or suborder Wide coverage of each phylum and diagrams of major and minor dissections make the book equally useful for both undergraduate and postgraduate students **Biology** Christian Liberty Press, Robert Glotzhaber, 2005-05-11 Student Study Guide Lab Manual for Biology A Search for Order in Complexity Provides biology students with a wide variety of hands on experiments that will enhance their biology study This laboratory manual is designed for a day school setting rather than a homeschool setting but most of the experiments and activities can be still done at home **Biology**, 1999 **Living a Motivated Life** Raymond J. Wlodkowski, 2019-03-14 What if as psychologists and adult educators advocate a person chose a life where his motivation for the work itself determined what he did *Living a Motivated Life A Memoir and Activities* follows the author through forty years revealing how he selected vocational pursuits guided by his understanding of intrinsic motivation and transformative learning As a compass for relevant decisions these ideas gave energy and purpose to how he lived and an instinct as sure as sight for the future Written with nuance humor and unpredictability this story renders how he came to appreciate learning for the pleasure of learning Facing similar challenges as those of today's first generation college students the memoir narrates his unexpected college enrollment his friendship with an ancient history professor and his triumphs and travails as teacher psychologist human relations specialist psychotherapist and adult educator This is the first memoir of someone who consciously chose to lead a professional life to experience flow on a daily basis It is an important step in the integration and evolution of intrinsic motivation theory and transformative learning But it reaches beyond this outcome sharing how the author aspired to be better at what he valued and showing how he discovered and extended these ideas to others **Carolina Science and Math** Carolina Biological Supply Company, 2003 **Laboratory Manual** Guy Andrew Bailey, Robert A. Greene, 1922 **The Well-Trained Mind** Susan Wise Bauer, Jessie Wise, 2009-05-04 Outstanding should be on every home educator's reference bookshelf Homeschooling Today This educational bestseller has dominated its field for the last decade sparking a homeschooling movement that has only continued to grow It will instruct you step by step on how to give your child an academically rigorous comprehensive education from preschool through high school Two veteran home educators outline the classical pattern of education the trivium which organizes learning around the maturing capacity of the child's mind With this model you will be able to instruct your child in all levels of reading writing history geography mathematics science foreign languages rhetoric logic art and music regardless of your own aptitude in those subjects Newly revised and updated The Well Trained Mind includes detailed book lists with complete ordering information up to date listings of resources publications and Internet

links and useful contact information **Biology/science Materials** Carolina Biological Supply Company,1991 **A Laboratory Manual of Invertebrate Zoölogy** Gilman Arthur Drew,1928 The Software Encyclopedia ,1985 **A manual of zoology**, by T.J. Parker and W.A. Haswell Thomas Jeffery Parker,1899 **A Manual of Zoology** Thomas Jeffery Parker,William Aitcheson Haswell,1899 **How to Dissect** William Berman,1985-06 A guide for dissecting animals beginning with the earthworm and progressing to more complex anatomies such as grasshopper starfish perch and ultimately a fetal pig Includes a chapter on dissecting flowers The Complete Home Learning Sourcebook Rebecca Rupp,1998 Lists all the resources needed to create a balanced curriculum for homeschooling from preschool to high school level **Manual of Environmental Microbiology** Cindy H. Nakatsu,Robert V. Miller,Suresh D. Pillai,2020-08-11 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 Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology Zoology Toby Miller,Harley,1995-10 **Zoology** Miller-Harley,1993-11 **Addison-Wesley Science Insights** ,1996 **Animal Welfare Information Center Bulletin** ,2000 **Animal Welfare Information Center Newsletter** ,2000

Starfish Dissection Manual Book Review: Unveiling the Magic of Language

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