

Phylum Echinodermata
(Key study organism: Starfish)

Organisms in this class...

Sea Dollar



Sea Cucumber



Sea Star



Key Characteristics:

- free-swimming larva to bottom-dwelling adult
- Most have 5 radii (pentamerous symmetry)
- Endoskeleton made of calcium plates
- Tube feet - aid in movement, feeding, respiration, excretion
- Nervous system but no brain/oesophagus
- Temperate - reproduce sexually and asexually

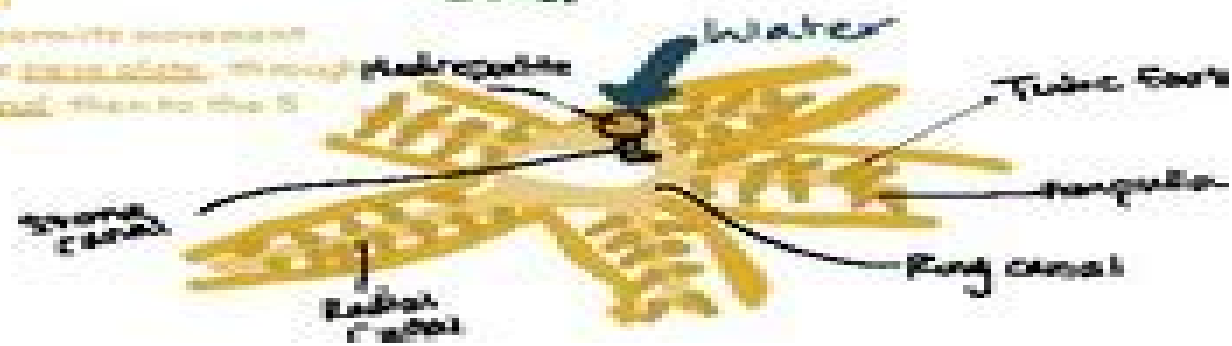
Structure + Function:

- Oral surface - underside of body
- Aboral surface - top of body
- Spines - sharp protective spines made of calcium plates



Water-Muscle System:

- Hydrostatic pressure permits movement
- Entry of Water - enters base plate, through aperture to the ring canal, then to the 5 radial canals



Section 1 Echinoderm Characteristics Study Guide

YCT Expert



Section 1 Echinoderm Characteristics Study Guide:

Zoology 1 Alfred Marlyn Elliott, 1957 Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer **Chapter Resource 31 Echinoderms/Invertebrates Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Study Guide to Accompany Biology, Third Edition, by Arms & Camp** Virginia Fry, 1987 **Prentice Hall Science Explorer** Michael J. Padilla, 2002 *Echinoderm Research* Michel Jangoux, 2020-12-18 This book is an outcome of the second European conference on Echinoderm brussels held in Belgium in 1989 It covers the following areas of research in echinoderm paleontology reproduction development and larval biology evolution systematics and biogeography morphology and physiology **Echinoderms: Munchen** Thomas Heinzeller, James H. Nebelsick, 2005-12-08 Since 1972 scientists from all over the world working on fundamental questions of echinoderm biology and palaeontology have conferred every three years to exchange current views and results The 11th International Echinoderm Conference held at the University of Munich Germany from 6 10 October 2003 continued this tradition This volume comprises 95 submitted papers and 96 abstracts covering a wide spectrum from innovative student contributions to the lessons learnt from experienced specialists The content of the contributions ranges from original research results to the latest synopses concerning a variety of topics including visual sensing larval cloning mutable collagenous tissues sea urchin aqua culture deuterostome phylogeny palaeobiology and taphonomy **Geological Survey Research, 1971: Chapter D.** Geological Survey (U.S.), 1971 Scientific notes and summaries of investigations in geology hydrology and related fields **Student Study Guide to Accompany General Zoology** Jane Aloï, Gina Erickson, 1999 Provides students with a tool for self study and can be used with any zoology text *Geological Survey Professional Paper* Geological Survey (U.S.), 1971 **Echinoderm studies 4 (1993)** Michel Jangoux, 2020-07-24 Echinoderm Studies is a biennial series in which comprehensive surveys of selected topics are presented A guiding principle of the series is to cover all aspects of echinoderm biology so as to promote a better comprehension of this group of animals Paleobiology of the Invertebrates Paul Tasch, 1980 **2024-25 RRB ALP Stage-I & II Science Study Material and Objective Questions** YCT Expert , 2024 25 RRB ALP Stage I II Science Study Material and Objective Questions 288 595 E This book covers Physics Chemistry and Biology *Biodiversity, Connectivity and Ecosystem Function Across the Clarion-Clipperton Zone: A Regional Synthesis for an Area Targeted for Nodule Mining* Craig Randall Smith, Adrian Glover, Malcolm Ross Clark, Erica Goetze, Kerry Howell, 2022-01-21 **Echinoderms** , 2019-02-16 Echinoderms Volume 150 in the Methods in Cell Biology series highlights new advances in the field with this update presenting interesting chapters on procuring animals and

culturing of eggs and embryos cryopreservation of sea urchin gametes emerging echinoderm models culturing of sand dollars cidaroids and heart urchins culturing echinoderm larvae through metamorphosis microinjection methods injection of exogenous messages and protein overexpression blastomere transplantation visualization of embryonic polarity larval immune cell approaches methods for analysis of sea urchin primordial germ cells and protocols and best practices for toxicology and pH studies using echinoderms and several new chapters outlining the use of sea urchins in the classroom Clear concise protocols provided by experts who have established the echinoderms as a model system Highlights new advances in the field with this update presenting interesting chapters on echinoderms *Biology* Kenneth R. Miller, 1991

U.S. Geological Survey Professional Paper, 1926 *Films and Other Materials for Projection* Library of Congress, 1968 **Deep-sea Sponge Ecosystems: Knowledge-based Approach Towards Sustainable Management and Conservation** Joana R. Xavier, Shirley A. Pomponi, Ellen Kenchington, 2023-02-28 **Geological Survey Professional Paper**, 1972

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