

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

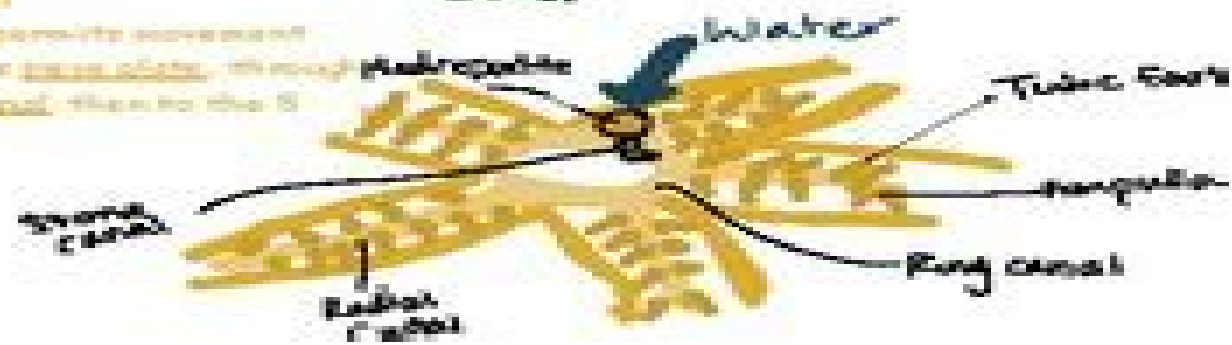
Structure + Function:

- 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 perforated discs, through stomodaeum to the radial canal, then to the 5 radial canals



Section Echinoderm Characteristics Study Guide

Rosina Ehmann



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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **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 **Barron's Science 360: A Complete Study Guide to Biology with Online Practice** Barron's Educational Series, Gabrielle I. Edwards, Cynthia Pfirrmann, 2021-09-07 Barron's Science 360 provides a complete guide to the fundamentals of biology Whether you're a student or just looking to expand your brain power this book is your go to resource for everything biology Back cover **Zoology 1** Alfred Marlyn Elliott, 1957

Echinoderms: Munchen Thomas Heinzeller, James H. Nebelsick, 2004-12-15 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 **Student Study Guide to Accompany General Zoology** Jane Aloi, 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 **Microbiology Terminology and Definitions (Speedy Study Guide)** Speedy Publishing, 2014-11-27 If you are a student studying Microbiology you may be greatly helped by a Microbiology Terminology and Definitions Study Guide as it can help you to focus and remember key terms that are going to be important to know when a big test arrives These study guides also organize the information in a format that makes it easier for you to understand and conceptualize the concepts that you are learning about in school Consider looking into purchasing such a study guide for your Microbiology course **Chapter Resource 31 Echinoderms/Invertebrates**

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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

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U.S. Geological Survey Professional Paper , 1926 Echinoderm studies 4 (1993) Michel Jangoux, 2020-07-24

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