

Echinoderms Study Guide

Echinoderms are a fascinating group of marine animals with unique characteristics and adaptations. This study guide will help you understand their key features, classification, and ecological importance.

I. Key Characteristics:

- **Spiny Skin:** Most echinoderms have a spiny or bumpy skin due to an endoskeleton composed of calcium carbonate plates.
- **Radial Symmetry:** Adults exhibit radial symmetry, meaning their body parts are arranged around a central axis, often with five sections. Larvae have bilateral symmetry.
- **Water Vascular System:** A unique network of water-filled canals and tube feet used for locomotion, feeding, and gas exchange.
- **Tube Feet:** Small, muscular extensions of the water vascular system that end in suction cups, used for movement, attachment, and capturing prey.
- **Endoskeleton:** An internal skeleton made of calcium carbonate plates that provides support and protection.
- **Marine Habitat:** All echinoderms are exclusively marine animals, found in various ocean habitats.

II. Classification:

Echinoderms are classified into five main classes:

- **Asteroidea (Sea Stars):** Typically have five arms radiating from a central disk, predatory, use tube feet for movement and feeding.
- **Ophiuroidea (Brittle Stars):** Have long, slender, flexible arms sharply distinct from the central disk, use arms for locomotion, often scavengers or detritivores.
- **Echinoidea (Sea Urchins and Sand Dollars):** Lack arms but have a rigid test (skeleton) and spines, mostly herbivorous grazers.
- **Holothuroidea (Sea Cucumbers):** Soft-bodied, elongated, with tentacles around the mouth, deposit feeders or filter feeders.
- **Crinoidea (Sea Lilies and Feather Stars):** Many are sessile or attached to the substrate, use feathery arms for filter feeding.

Echinoderms Reinforcement And Study Guide Answers

Thomas Griffiths



Echinoderms Reinforcement And Study Guide Answers:

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 **Parade of Life** ,1993 **Biology** Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02 **Chemical Abstracts** ,1909 *Scientific American* ,1897 **Monthly Catalogue, United States**

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