

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.

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