

# Ebook free Chapter 28 arthropods and echinoderms (PDF)

echinoderm any of a variety of invertebrate marine animals belonging to the phylum echinodermata characterized by a hard spiny covering or skin living species include sea lilies sea urchins sea cucumbers starfishes basket stars and sea daisies the distinguishing feature of arthropods is the presence of a jointed skeletal covering composed of chitin a complex sugar bound to protein this nonliving exoskeleton is secreted by the underlying epidermis which corresponds to the skin of other animals echinoderms possess an unusual suite of appendages on their skeletons which are used for movement interaction and defense in addition to spines urchins and sea stars both possess pedicellariae singular pedicellaria which are jaw like structures often at the end of stalks echinoderms have a unique system for gas exchange nutrient circulation and locomotion called the water vascular system the system consists of a central ring canal and radial canals extending along each arm echinoderms possess a water based circulatory system the madreporite is the point of entry and exit for water for the water vascular system the characteristic features of chordata are a notochord a dorsal hollow nerve cord pharyngeal slits and a post anal tail echinoderms have a unique system for gas exchange nutrient circulation and locomotion called the water vascular system the system consists of a central ring canal and radial canals extending along each arm an echinoderm is any deuterostomal animal of the phylum echinodermata which includes starfish brittle stars sea urchins sand dollars and sea cucumbers as well as the sessile sea lilies or stone lilies arthropods are the largest phylum in the animal kingdom most arthropods are insects the phylum also includes spiders centipedes and crustaceans the arthropod body consists of three segments with a hard exoskeleton and jointed appendages terrestrial arthropods have adaptations for life on land such as trachea or book lungs for breathing air four major groups of echinoderms include sea stars brittle stars sea urchins and sea cucumbers

they are radially symmetric meaning their bodies are arranged around a central point the outside of their bodies is made of tiny plates or spines that provide their bodies support arthropods are the most diverse animal phylum and their phylogenetic relationships have been debated for centuries with the advent of molecular phylogenetics arthropods were found to be monophyletic and placed within a clade of molting animals the ecdysozoans with nematodes and six other phyla all adult echinoderms have an internal skeleton five part radial symmetry a water vascular system and the ability to breathe through their skin echinoderms are recognized by the spines that project from their internal skeleton through their outer covering echinoderm means spiny skinned endoskeleton this free textbook is an openstax resource written to increase student access to high quality peer reviewed learning materials there are 7000 different living species of echinoderms and 13 000 identified fossil species although the number of echinoderm species is very small compared to the number of species within the arthropod phylum echinodermata is the largest phylum to lack freshwater and terrestrial species finally the arthropods one of the most successful taxonomic groups on the planet are coelomate organisms with a hard exoskeleton and jointed appendages the nematodes and the arthropods belong to a clade with a common ancestor called ecdysozoa arthropods inhabit almost all habitats while echinoderms are largely marine dwelling fundamentally body covering distinguishes arthropods from echinoderms while arthropods finally the arthropods one of the most successful taxonomic groups on the planet are coelomate organisms with a hard exoskeleton and jointed appendages the nematodes and the arthropods belong to a clade with a common ancestor called ecdysozoa as nouns the difference between arthropod and echinoderm is that arthropod is an invertebrate animal of the phylum arthropoda characterized by a chitinous exoskeleton and multiple jointed appendages while echinoderm is any member of the echinodermata a group of radially symmetric spiny skinned marine animals examples of echinoderms include this chapter contains questions on the classification anatomy and characteristics of the arthropoda and echinodermata the questions are divided into three levels i e foundation intermediate and advanced arthropods have a waterproof outer covering called an exoskeleton the exoskeleton

prevents water from evaporating and protects them from predators the exoskeleton is made up of a material known as chitin

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arthropods are the largest phylum in the animal kingdom most arthropods are insects the phylum also includes spiders centipedes and crustaceans the arthropod body consists of three segments with a hard exoskeleton and jointed appendages terrestrial

arthropods have adaptations for life on land such as trachea or book lungs for breathing air

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four major groups of echinoderms include sea stars brittle stars sea urchins and sea cucumbers they are radially symmetric meaning their bodies are arranged around a central point the outside of their bodies is made of tiny plates or spines that provide their bodies support

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arthropods are the most diverse animal phylum and their phylogenetic relationships have been debated for centuries with the advent of molecular phylogenetics arthropods were found to be monophyletic and placed within a clade of molting animals the ecdysozoans with nematodes and six other phyla

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all adult echinoderms have an internal skeleton five part radial symmetry a water vascular system and the ability to breathe through their skin echinoderms are recognized by the spines that project from their internal skeleton through their outer covering echinoderm means spiny skinned endoskeleton

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there are 7000 different living species of echinoderms and 13 000 identified fossil species although the number of echinoderm species is very small compared to the number of species within the arthropod phylum echinodermata is the largest phylum to lack freshwater and terrestrial species

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