

Epub free 30 1 the chordates answer key

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a chordate 'kɔ:rdert kor dayt is a deuterostomic animal belonging to the phylum chordata kɔ:r'dertə kor day tə all chordates possess at some point during their larval or adult stages five distinctive physical characteristics synapomorphies that distinguish them from other taxa chordate any member of the phylum chordata which includes the vertebrates the most highly evolved animals as well as two other subphyla the tunicates and cephalochordates some classifications also include the phylum hemichordata with the chordates a chordate is an animal that belongs to the phylum chordata which is part of the deuterostomes kingdom organisms in the deuterostomes kingdom have a distinct characteristic their anus develops before their mouth in early embryonic stages vertebrates are members of the kingdom animalia and the phylum chordata figure 29 1 1 29 1 1 recall that animals that possess bilateral symmetry can be divided into two groups protostomes and deuterostomes based on their patterns of embryonic development describe the distinguishing characteristics of chordates identify the derived characters of craniates that sets them apart from other chordates describe the developmental fate of the notochord in vertebrates key points these characteristics are only present during embryonic development in some chordates the notochord provides skeletal support gives the phylum its name and develops into the vertebral column in vertebrates the dorsal hollow nerve cord develops into the central nervous system the brain and spine this is what makes chordates different from other animal phyla which have solid ventral nerve cords meaning they run along the front or stomach side third all chordates have pharyngeal slits in invertebrates like the lancelet here they function as filters for feeding describe the distinguishing characteristics of chordates identify the derived character of craniates that sets them apart from other chordates describe the developmental fate of the notochord in vertebrates characteristics of chordata animals in the phylum chordata share four key features that appear at some stage during their development a notochord a dorsal hollow nerve cord pharyngeal slits and a post anal tail figure 2 in some groups some of these are present only during embryonic development there is disagreement over whether older animals such as yunnanzoon lividum and haikouella both of which date to 530 million years ago and possess several chordate features should be considered chordates an extensive vertebrate fossil record begins about 400 million years ago describe the distinguishing characteristics of chordates vertebrates are members of the kingdom animalia and the phylum chordata figure 1 the vertebrates exhibit two major innovations in their evolution from the invertebrate chordates the chordates are named for the notochord which is a flexible rod shaped mesodermal structure that is found in the embryonic stage of all chordates and in the adult stage of some chordate species it is strengthened with glycoproteins similar to cartilage and covered with a collagenous sheath the chordates are named for the notochord which is a flexible rod shaped structure that is found in the embryonic stage of all chordates and in the adult stage of some chordate species it is located between the digestive tube and the nerve cord and provides skeletal support through the length of the body identify the common characteristics of chordates vertebrates are members of the kingdom animalia and the phylum chordata recall that animals that possess bilateral symmetry can be divided into two groups protostomes and deuterostomes based on their patterns of embryonic development phylum chordata belongs to the kingdom animalia and includes all the vertebrates i e animals with a backbone and several invertebrates i e organisms without a backbone they possess a bilaterally symmetrical body and are divided into three

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chordate any member of the phylum chordata which includes the vertebrates the most highly evolved animals as well as two other subphyla the tunicates and cephalochordates some classifications also include the phylum hemichordata with the chordates

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vertebrates are members of the kingdom animalia and the phylum chordata figure 29 1 1 29 1 1 recall that animals that possess bilateral symmetry can be divided into two groups protostomes and deuterostomes based on their patterns of embryonic development

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key points these characteristics are only present during embryonic development in some chordates the notochord provides skeletal support gives the phylum its name and develops into the vertebral column in vertebrates the dorsal hollow nerve cord develops into the central nervous system the brain and spine

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this is what makes chordates different from other animal phyla which have solid ventral nerve cords meaning they run along the front or stomach side third all chordates have pharyngeal slits in invertebrates like the lancelet here they function as filters for feeding

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