Section 26-1: Introduction to Arthropods

In this section you were introduced to the largest and most diverse animal phylum: the arthropods. You discovered that this group of animals includes <u>horseshoe</u> crabs, spiders, <u>scorpions</u>, ticks, shrimp, barnacles, water fleas, centipedes, <u>millipedes</u>, and butterflies and all other <u>insects</u>, as well as the large group of extinct animals known as <u>trilobites</u>.

You learned that the three main characteristics of an arthropod are tough <u>exoskeleton</u>, a series of jointed <u>appendages</u>, and a <u>segmented</u> body. You learned how arthropods carry out essential life functions, and you studied in detail the body plan of a representative arthropod, the grasshopper.

You discovered that growth and development in arthropods is associated with the process called *molting*. Arthropods molt, or shed, their exoskeletons in order to grow larger. Some arthropods also change in form as well as in size when they molt. Some arthropods, such as butterflies and beetles, change abruptly and dramatically as they go from one stage of development to the next.

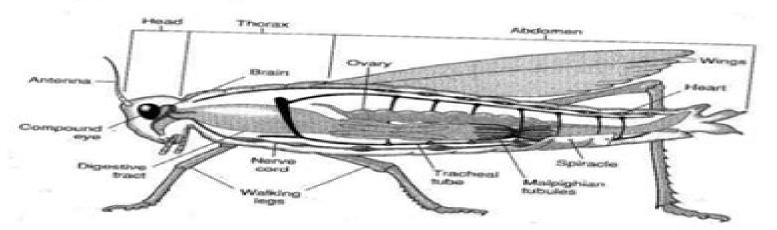
Relating terms: building vocabulary skills

Consider the following terms: exoskeleton, chitin, and molt. In the space provided, write a brief paragraph in which you discuss how these terms are related to one another and explain the importance of these terms in identifying arthropods.

Answers will vary; here is one possible answer: One of the main characteristics of an arthropodis the presence of a tough exoskeleton made of the protein chitin. Arthropods must replace their exoskeleton as they grow and mature. IN order to do this, they molt, or shed, their otugrouwn exoskeleton. The arthropod then expands to a larger size, and its new, soft exoskeleton, which was secreted by the epiderms inside the odl exoskeleton, stretches to cover it.

Interpreting Diagrams: Understanding the Main Ideas

The accompanying diagram shows the internal structures of a representative arthropod, the grasshopper. Refer to the diagram to answer the questions that follow.



Arthropods Study Guide Answer Key

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entomologists botanists and forestry experts **Arthropods** Susan Appel,1998 Finding arthropods The backyard laboratory Brine shrimp Determining the optimum salt water concentration The web of death A spider s trap Incomplete metamorphosis A cricket's life cycle Adaptations How insects escape Insect pests The tent caterpillar Plus 14 more interesting and Arthropod Biology and Evolution Alessandro Minelli, Geoffrey Boxshall, Giuseppe Fusco, 2013-04-11 entertaining activities More than two thirds of all living organisms described to date belong to the phylum Arthropoda But their diversity as measured in terms of species number is also accompanied by an amazing disparity in terms of body form developmental processes and adaptations to every inhabitable place on Earth from the deepest marine abysses to the earth surface and the air The Arthropoda also include one of the most fashionable and extensively studied of all model organisms the fruit fly whose name is not only linked forever to Mendelian and population genetics but has more recently come back to centre stage as one of the most important and more extensively investigated models in developmental genetics. This approach has completely changed our appreciation of some of the most characteristic traits of arthropods as are the origin and evolution of segments their regional and individual specialization and the origin and evolution of the appendages At approximately the same time as developmental genetics was eventually turning into the major agent in the birth of evolutionary developmental biology evo devo molecular phylogenetics was challenging the traditional views on arthropod phylogeny including the relationships among the four major groups insects crustaceans myriapods and chelicerates In the meantime palaeontology was revealing an amazing number of extinct forms that on the one side have contributed to a radical revisitation of arthropod phylogeny but on the other have provided evidence of a previously unexpected disparity of arthropod and arthropod like forms that often challenge a clear cut delimitation of the phylum **Study Guide** George Karleskint, 1991

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