

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 horseshoe crabs, spiders, scorpions, ticks, shrimp, barnacles, water fleas, centipedes, millipedes, and butterflies and all other insects, as well as the large group of extinct animals known as trilobites.

You learned that the three main characteristics of an arthropod are tough exoskeleton, a series of jointed appendages, and a segmented 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.

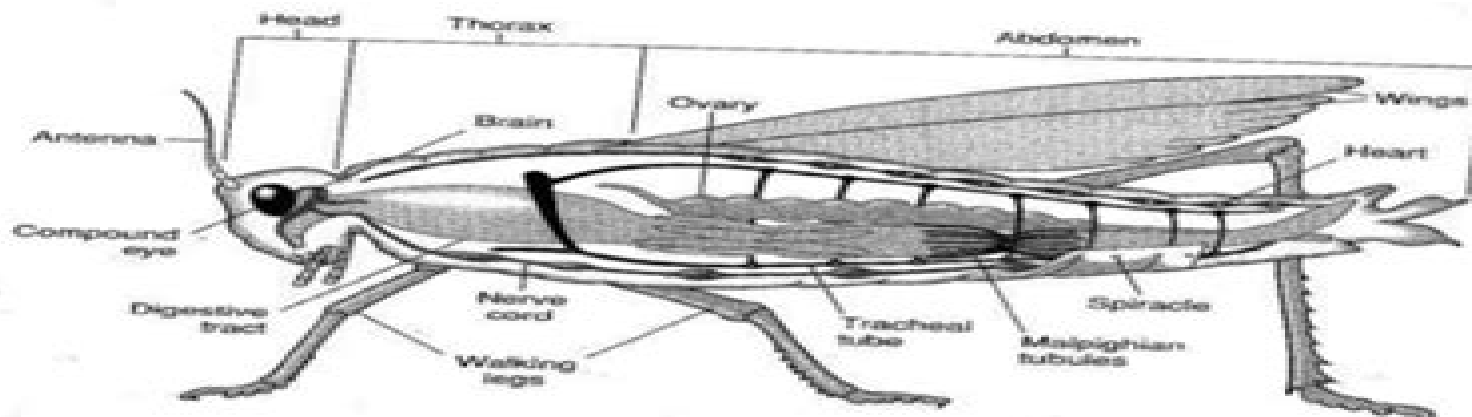
Relating terms: building vocabulary skills

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 arthropod is 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 outgrown exoskeleton. The arthropod then expands to a larger size, and its new, soft exoskeleton, which was secreted by the epidermis inside the old 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

Chao Zhang

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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

Arthropods of Tropical Forests Yves Basset, 2003-01-23 Arthropods are the most diverse group of organisms on our planet and the tropical rainforests represent the most biologically diverse of all ecosystems This book written by 79 authors contributing to 35 chapters aims to provide an overview of data collected during recent studies in Australia Africa Asia and South America The book focuses on the distribution of arthropods and their use of resources in the rainforest canopies providing a basis for comparison between the forest ecosystems of the main biogeographical regions Topics covered include the distribution of arthropods along vertical gradients and the relationship between the soil litter habitat and the forest canopy The temporal dynamics of arthropod communities habitats and food selection are examined within and among tropical tree crowns as are the effects of forest disturbance This important book is a valuable addition to the literature used by community ecologists conservation biologists entomologists botanists and forestry experts

Problem Solving Questions in Toxicology: P K Gupta, 2020-10-19 The book provides easy to understand diverse specialized topics in toxicology using self study questions and answers The answers are in the form of text along with custom made diagrams and explanations that help the student audience to understand and grasp the matter easily It is written specifically as a study guide for the toxicology board and other examinations

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