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Structure and Function of	Invertebrates • Readi	ing/Notetaking Guide		
Arthropods (pp. 4	134–441)			
This section describes the char structures of insects, crustaced				
Use Target Reading Sk	ills			
As you read, take notes on the that support each main idea. T graphic organizer below to tak	hink about the Key Concept			
	Arthropods			
Questions		Notes		
What is an arthropod?	An arthropod	is		
Characteristics of Arth	ropods (np. 435–436			
<ol> <li>List four major groups</li> </ol>		,		
a	b			
с	d			
<b>2.</b> What are the characteri				
<b>3.</b> Circle the letter of each	example of an appendag	ge found in arthropods.		
a. wings		55 mist 21 arati op 040.		
<b>b.</b> closed circulatory sy <b>c.</b> digestive system with				

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4.	How does an exoskeleton h	elp arthropods live or	ı land?
5.	What happens to the exoske	eleton when an arthro	pod grows?
6.	Look at the table in your text.  Crustaceans have have	pa body sections. I	irs of antennae. Arachnids
7.	Is the following sentence transfer arthropods flexibility and the	ue or false? Joints in th	neir appendages give
Mā	atch the type of appendage w	ith its function.	
	Appendage	Function	
	8. antennae 9. legs		ng, catching prey, defending t predators
		<b>b.</b> Have s and to	ense organs for smelling, tasting, uching

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Ar	thropods (continued)
Di۱	versity of Arthropods (pp. 436–438)
10.	What is a crustacean?
11.	Circle the letter of each sentence that is true about crustaceans.
	<ul> <li>a. Crustaceans get oxygen through gills.</li> <li>b. Crustaceans live only in dry areas on land.</li> <li>c. Most crustaceans begin their lives as tiny swimming larvae.</li> <li>d. Each body segment has one pair of legs attached to it.</li> </ul>
12.	Crustacean larvae develop into adults by, a process in which an animal's body changes dramatically during its lifetime.
13.	An arthropod with only two body sections and four pairs of legs is a(n)
14.	Circle the letter of each characteristic of arachnids.
	<ul> <li>a. Abdomen containing reproductive organs</li> <li>b. Four pairs of legs</li> <li>c. Four antennae</li> <li>d. Parasitic</li> </ul>
15.	Circle the letter of each sentence that is true about spiders.
	<ul> <li>a. All spiders are herbivores.</li> <li>b. All spiders build webs to catch their prey.</li> <li>c. Spiders have hollow fangs that inject venom into prey.</li> <li>d. Spiders rarely bite people.</li> </ul>

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	the arthropod with its characteristic more than once.	es. E	ach kind of arthropod may be	
	Characteristics	Ar	thropods	
	<b>16.</b> Two pairs of legs on each segment		centipede	
	17. One pair of legs on each segment	υ.	millipede	
	18. Head with one pair of antenna	9		
	<b>19.</b> Long abdomen with many segments			

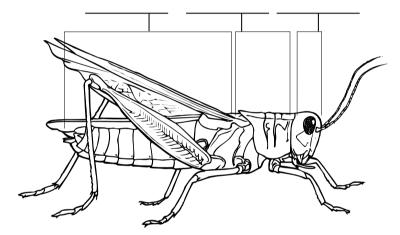
Name	Date	Class	

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**Arthropods** (continued)

Characteristics of Insects (p. 439)

- **20.** What is an insect?
  - \_\_\_\_
- **21.** Circle the letter of the body section to which wings and legs are attached.
  - a. head
  - **b.** thorax
  - c. abdomen
  - d. exoskeleton
- **22.** Identify the body sections of the grasshopper below.



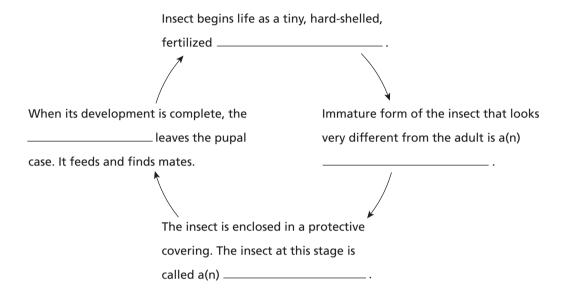
**23.** Each organ, tissue, and cell in an insect's nervous system contributes to the functions of \_\_\_\_\_\_ and

## Structure and Function of Invertebrates • Reading/Notetaking Guide

- **24.** Insects have two \_\_\_\_\_\_ eyes, which contain many lenses.
- 25. Insects get oxygen into their bodies through a system of

## Insect Life Cycles (pp. 440-441)

**26.** Complete the cycle diagram to show the stages of complete metamorphosis.



**27.** In gradual metamorphosis, the egg hatches into a(n) \_\_\_\_\_, which looks much like a small adult.