Section 28–3 Insects (pages 726–733)

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TEKS FOCUS: 3F History of biology and contributions of scientists; 10A Body systems;

TEKS SUPPORT: 7B Adaptation

This section identifies the distinguishing features of insects. It also describes two types of development insects can undergo and explains what types of insects form societies.

Introduction (page 726)

1. What are three characteristics of insects that have contributed to their evolutionary success?

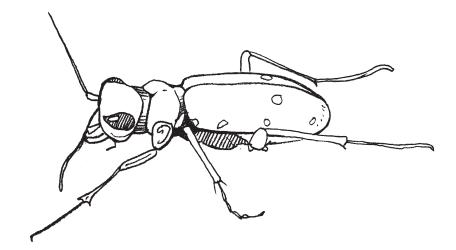
a. _____

b. .

c.

What Is an Insect? (pages 727–729)

2. Label the three body parts of an insect.



- 3. How many pairs of legs does an insect have, and where are they attached?
- 4. Circle the letter of each sentence that is true about a typical insect.
 - a. It has tracheal tubes used for respiration.
 - **b.** It has a pair of compound eyes on the head.
 - **c.** It has two pairs of wings on the abdomen.
 - **d.** It has a pair of antennae on the head.
- **5.** What is the multiple-lens structure of the compound eye better at detecting than the human eye? _____
- 6. Where do insects have chemical receptors for taste and smell? ______

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. Is the following sentence true or false? Many insects have well-developed ears.			
Why do insect mouthparts take on a variety of shapes?			
How many pairs of wings does a flying insect typically have, and what are they made of?			
What has the evolution of flight allowed insects to do?			
What is metamorphosis?			
What is the main difference between complete metamorphosis and incomplete metamorphosis?			
The immature forms of an insect that undergo incomplete metamorphosis are called			
Circle the letter of each type of insect that undergoes complete metamorphosis. a. moths b. bees c. chinch bugs d. beetles			
What do the insects that undergo complete metamorphosis hatch into?			
The stage in which an insect changes from larva to adult is called a(an)			
 Circle the letter of each sentence that is true about complete metamorphosis. a. The nymphs gradually acquire adult structures. b. During the pupal stage, the body is completely remodeled inside and out. 			

Insects and Humans (page 730)

18. Is the following sentence true or false? Only male mosquitoes bite humans and other animals to get a blood meal. _____

Ivaiiu	e	Class	Date	
19. H	How do insects contribute bene	eficially to agriculture?		
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Inse	ect Communication (page	731)		
20. (Circle the letter of each sentence	e that is true about insect of	communication.	
a	a. To attract females, male crickets chirp.			
b	b. Much of an insect's communication involves finding a mate.			
C	c. Insects communicate using visual signals.			
d	l. Fireflies use sound cues to c	ommunicate with potentia	l mates.	
21. V	What are pheromones?			
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	ect Societies (pages 732–733)			
22. V	What is a society?			
- ZZ. V	What is a society?			
_	What is a society?			
23. C	·	re that is true about castes.		
23. C	Circle the letter of each sentenc	re that is true about castes.		
23. C	Circle the letter of each sentence. Each caste has a body form	re that is true about castes. specialized for its role. ultiple queens.		
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Reading Skill Practice

By looking carefully at illustrations in textbooks, you can help yourself understand better what you have read. Look carefully at Figure 28–16 on page 728. What important idea do these illustrations communicate? Do your work on a separate sheet of paper.