Name	Class	Date
Chapter 28 Arthropod	ls and Echinoderms	
Section 28–1 Int	troduction to the Arthr	opods (pages 715–719)
TEKS FOCUS: 10A Boo BA Classification; 10B Interre	dy systems; 11B Response; <b>TEKS SUPPC</b> lationships of body systems	ORT: 2D Valid conclusions;
	nain features of arthropods. It also des pod evolution and explains how growt arthropods.	
What Is an Arthrop	od? (page 715)	
1. What is the basic body	y plan of all arthropods?	
2. A tough body wall that	at protects and supports the body	of arthropods is called a(an)
<b>3.</b> What is chitin?		
4. Circle the letter of eac	h sentence that is true about arthro	opod exoskeletons.
<b>a.</b> The exoskeletons o	f many land-dwelling species have	e a waxy covering.
<b>b.</b> All arthropod exos	keletons are the same shape.	
c. Lobster exoskeletor	ns cannot be crushed by hand.	
<b>d.</b> An exoskeleton is a	C	
5. What are appendages	?	
<b>6.</b> Is the following senter	nce true or false? The appendages	of arthropods are jointed.
Evolution of Author	mada ( ma	
<b>Evolution of Arthro</b> 7. Where did the first ar	<b>pods</b> (page 716) thropods appear more than 600 mi	illion years ago?
	which arthropods have evolved s	

- **9.** Circle the letter of each sentence that is true about arthropod evolution.
  - **a.** Most primitive arthropods had only one or two body segments.
  - **b.** Arthropod appendages evolved into different forms.
  - c. The early body plan was modified gradually.
  - **d.** Appendages of living arthropods include wings, flippers, and mouthparts.

## Form and Function in Arthropods (pages 716–719)

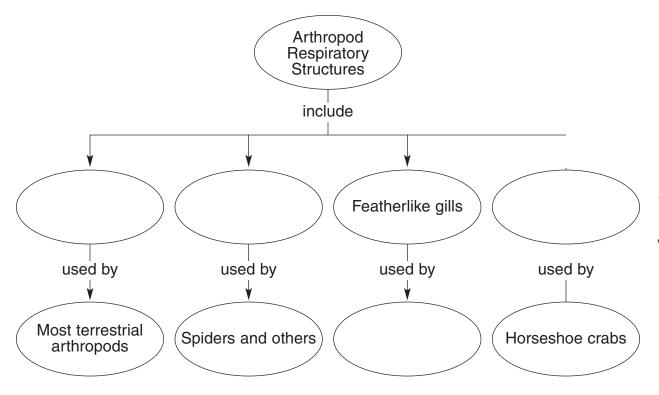
**10.** Is the following sentence true or false? Arthropods include herbivores, carnivores, and omnivores. \_\_\_\_\_

*Match the arthropod structure with its description.* 

Structure		
11.	Tracheal tubes	
12.	Spiracles	
13.	Book lungs	
14.	Book gills	
15.	Malpighian tubules	
	<ul><li>11.</li><li>12.</li><li>13.</li><li>14.</li></ul>	

## Description

- **a.** Saclike organs that extract wastes from the blood and add them to feces
- **b.** Network of branching tubes through which arthropods breathe
- c. Organs through which horseshoe crabs respire
- **d.** Layers of respiratory tissue stacked like the pages of a book through which spiders respire
- **e.** Small openings on the side of the body through which air enters and leaves tracheal tubes
- **16.** Complete the concept map about arthropod respiration.



Naı	me	Class	Date					
17. Circle the letter of each sentence that is true about the response to the environment by arthropods.								
<ul><li>a. Most arthropods have sophisticated sense organs.</li><li>b. All arthropods have a brain.</li></ul>								
							<b>c.</b> Ganglia along a ventral nerve corof individual legs.	ne movements
	d. Very few arthropods have a well-developed nervous system.							
18.	3. How do aquatic arthropods carry out excretion?							
19.	9. How do arthropods move?							
20.	Circle the letter of each sentence that	at is true about	arthropod reproduction.					
	<b>a.</b> Aquatic arthropods have only in	ternal fertilizati	ion.					
	<b>b.</b> In some species, males have an ofemales.	organ that place	s sperm inside					
	c. Terrestrial arthropods may have internal or external fertilization.							
	<b>d.</b> In some aquatic species, males she released into the environment.	ned sperm arou	ınd eggs					
Gr	owth and Development in A	rthropods (p	age 719)					
21.	When do arthropods undergo periods of molting?							
22.	What occurs in arthropods during molting?							