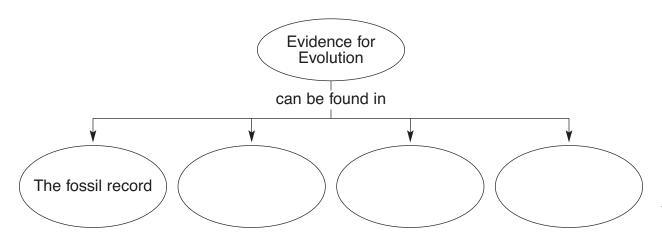
TEKS FOCUS: 3A Critique theories; 3F History of science; 7A Evidence of change—anatomical and physiological similarities, embryology; 7B Natural selection; TEKS SUPPORT: 6D Variation This section explains the concepts of artificial selection, natural selection, and fitness. It also describes evidence for evolution. Publication of On the Origin of Species (pages 378–379) 1. Is the following sentence true or false? When Darwin returned to England to publish his thoughts about evolution. 2. The naturalist whose essay gave Darwin an incentive to publish his own of Species. a. It was published in 1869. b. It was ignored when it was first published. c. It contained evidence for evolution. d. It described natural selection. Inherited Variation and Artificial Selection (page 379) 4. Differences among individuals of a species are referred to as				
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	therited Variation and Artificial Selection (page 379)			
5. Is the following sentence true or false? Genetic variation is found only in	Differences among individuals of a species are referred to as			
	wild			
organisms in nature				
6. Circle the letter of each sentence that is true about artificial selection.				
a. It is also called selective breeding.				
b. It occurs when humans select natural variations they find useful.				
c. It produces organisms that look very different from their ancestors.				
d. It is no longer used today.				
Evolution by Natural Selection (pages 380-382)				
7. What was Darwin's greatest contribution?				
Match each term with its definition.				
Terms Definitions				
8. fitness9. adaptationa. Any inherited characteristic that ir organism's chance of survival	ncreases an			
10. natural selection b. Survival of the fittest				
c. The ability of an individual to survere reproduce in its specific environments.				

- **11.** What does the phrase *struggle for existence* mean? _____
- 12. Is the following sentence true or false? Adaptations can be physical characteristics but not more complex features such as behavior.
- **13.** Explain what Darwin meant by the phrase *survival of the fittest*.
- **14.** Circle the letter of each sentence that is true about natural selection.
 - a. It selects traits that increase fitness.
 - **b.** It takes place without human control.
 - **c.** It can be observed directly in nature.
 - **d.** It leads to an increase in a species' fitness.
- 15. The principle that living species descend, with changes, from other species over time is referred to as _____
- 16. The principle that all species were derived from common ancestors is known as

Evidence of Evolution (pages 382–385)

- 17. Is the following sentence true or false? Darwin argued that living things have been evolving on Earth for thousands of years. _____
- **18.** Complete the concept map.



19. How do fossils that formed in different rock layers provide evidence of evolution?

Naı	me	Class	Date		
20.	Circle the letter of the way Da Galápagos Islands.	nrwin explained the distrib	oution of finch species on the		
	a. They had descended with	modification from a comm	non mainland ancestor.		
	b. They had descended with modification from several different mainland ancestors.				
	c. They had remained unchanged since arriving on the Galápagos from the mainland.				
	d. They had become more similar to one another after arriving on the Galápagos.				
21.	How did Darwin explain the existence of similar but unrelated species?				
22.	Structures that have different	•	from the same embryonic		
	tissues are called				
23.	Is the following sentence true that all four-limbed vertebrate		uctures provide strong evidence nodifications, from common		
	ancestors.	<u> </u>			
24.	Organs that are so reduced in	size that they are just vest	tiges, or traces, of homologous		
	organs in other species are cal	lled	·		
Su	mmary of Darwin's Theo	O ry (page 386)			
25.	Circle the letter of each idea th	hat is part of Darwin's the	ory of evolution.		
	a. There is variation in nature	<u>.</u>			
	b. Fewer organisms are produ	uced than can survive.			
	c. There is a struggle for exist	tence.			
	d. Species change over time.				
26.	According to Darwin's theory	, what happens to individ	uals whose characteristics are		
	not well suited to their enviro	nment?			
27.	Darwin believed that all organ	nisms on Earth are united	into a single tree of life by		
Ev	olutionary Theory Since	Darwin (page 386)			
	28. What is the status of Darwin's hypotheses today?				
28.	vynat is the status of Darwin's	s hypotheses today?			