Name	Class	Date
Section 15-3 Dar	win Presents His Case	(pages 378–386)
This section explains the con and fitness. It also describes	cepts of artificial selection, natural evidence for evolution.	selection,
Publication of On the	e Origin of Species (pages 37	8–379)
1. Is the following sentence	ce true or false? When Darwin real about evolution.	turned to England, he rushed
•	ssay gave Darwin an incentive to	
3. Circle the letter of each <i>of Species.</i>	sentence that is true about Darv	vin's book, On the Origin
a. It was published in	1869.	
b. It was ignored whe	n it was first published.	
c. It contained evider	ice for evolution.	
d. It described natura	l selection.	
Inherited Variation a	nd Artificial Selection (pa	ge 379)
	viduals of a species are referred	_
	ce true or false? Genetic variation	
	sontonce that is true about artificing	al solaction

- - **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 8. fitness 9. adaptation ____ 10. natural selection

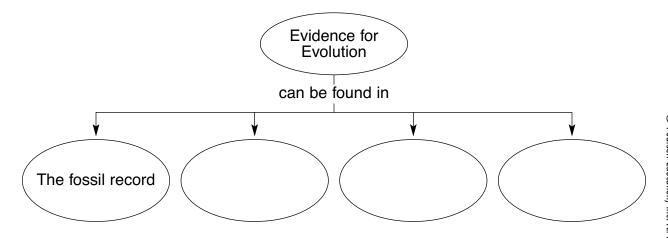
Definitions

- a. Any inherited characteristic that increases an organism's chance of survival
- **b.** Survival of the fittest
- c. The ability of an individual to survive and reproduce in its specific environment

- 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	ime	Class	Date			
20.	Circle the letter of the way Darwin explained the distribution of finch species on the Galápagos Islands.					
	a. They had descended with modification from a common 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.					
	21.	. How did Darwin explain the ex				
22.	Structures that have different m		op from the same embryonic			
	tissues are called					
23.	that all four-limbed vertebrates	have descended, with	tructures provide strong evidence modifications, from common			
	ancestors.					
24.	Organs that are so reduced in size that they are just vestiges, or traces, of homologous					
	organs in other species are calle	d	 -			
Su	ımmary of Darwin's Theoi	y (page 386)				
25.	. Circle the letter of each idea tha	t is part of Darwin's th	neory of evolution.			
	a. There is variation in nature.					
	b. Fewer organisms are produc	ed than can survive.				
	c. There is a struggle for existen	nce.				
	d. Species change over time.					
26.	. According to Darwin's theory, v	what happens to indivi	duals whose characteristics are			
	not well suited to their environ					
27.	Darwin believed that all organis	sms on Earth are united	d into a single tree of life by			
Ev	olutionary Theory Since I	Darwin (page 386)				
28.	. What is the status of Darwin's l	nypotheses today?				

Name	Class	Date	

WordWise

Test your knowledge of vocabulary terms from Chapter 15 by completing this crossword puzzle.

Clues across:

- **1.** The type of selection that humans control
- **3.** The ability to survive and reproduce in a specific environment
- 5. Change over time
- **9.** The kind of structures that have different mature forms but develop from the same embryonic tissues
- **10.** Any inherited characteristic that increases an organism's chance of survival

Clues down:

- **2.** The preserved remains of ancient organisms
- **4.** A well-supported explanation of phenomena that have occurred in the natural world
- **6.** The type of selection that increases an organism's fitness in its environment
- 7. The kind of organs that are so reduced in size they are just traces of homologous organs in other species
- **8.** The type of descent that explains why all species are linked in a single tree of life

