Name	Date	Class		
Changes Over Time • Chapter Test				
Chan	nges Over Time			
_	e <b>Choice</b> e letter of the correct answer on the line at the left.			
1.	<ul> <li>Which of the following is considered a scientific theo</li> <li>a. radioactive dating</li> <li>b. fossil record</li> <li>c. evolution</li> <li>d. overproduction</li> </ul>	ory?		
2.	<ul> <li>A fossil made of hardened minerals in the shape of to organism or one of its parts is called a(n)</li> <li>a. mold.</li> <li>b. variation.</li> <li>c. amber.</li> <li>d. cast.</li> </ul>	he original		
3.	<ul> <li>On the <i>Beagle</i>, Charles Darwin's job was to</li> <li>a. study the formation of the Galápagos Islands.</li> <li>b. learn about the living things he saw on the voyag</li> <li>c. make a map of the world.</li> <li>d. find evidence of extinct species.</li> </ul>	e.		
4.	<ul> <li>Which of the following is a type of evidence used by determine evolutionary relationships?</li> <li>a. the locations of islands in an ocean</li> <li>b. the order of amino acids in a protein</li> </ul>	scientists to		
5.	<ul> <li>a fossil is called</li> <li>a. radioactive dating.</li> <li>b. gradualism.</li> <li>c. natural selection.</li> </ul>	actual age of		
6.	<ul> <li>d. relative dating.</li> <li>An adaptation is any trait that helps an organism</li> <li>a. survive and reproduce.</li> <li>b. fight better.</li> <li>c. overproduce variations.</li> <li>d. become larger and stronger.</li> </ul>			
7.	<ul> <li>Most fossils form when they become buried in</li> <li>a. molds.</li> <li>b. leaves, stems, and roots.</li> <li>c. sediment.</li> <li>d. radioactive elements.</li> </ul>			

Name	Date	Class
Changes	es Over Time • Chapter Test	
8.	cies form is through	
	<ul><li>b. gradualism.</li><li>c. genetic similarities.</li><li>d. movement between islands.</li></ul>	
9.	<ul> <li>A species is a group of similar organisms</li> <li>a. successfully compete against other species</li> <li>b. overproduce helpful traits.</li> <li>c. adapt to new environmental condition</li> <li>d. mate and produce fertile offspring.</li> </ul>	ecies.
10	<ul><li>10. Radioactive dating of fossils depends on</li><li>a. radioactive elements.</li><li>b. dead organisms.</li><li>c. buried DNA.</li><li>d. extinct species.</li></ul>	the decay of
<b>Comple</b> <i>Fill in the</i>	etion ne line to complete each statement.	
	agram that shows how different groups of ced a(n)	organisms are related is
<b>12.</b> The _ takes	of a radioactive s for half of the atoms in a sample to decay.	element is the time it
	lution occurs by means of a process called $\_$	
	author of <i>The Origin of Species</i> was	
15. A spe	pecies is if no mer alive.	mbers of that species are
True or	r False	
	tement is true, write true. If it is false, change the the statement true.	underlined word or words
	<b>16.</b> Any difference between individua(n) <u>variation</u> .	uals of the same species is called
	<b>17.</b> The millions of fossils that scient <u>fossil record</u> .	tists have collected make up the
	<b>18.</b> Only traits that are <u>learned</u> can be	acted upon by natural selection.
	<b>19.</b> Related species have similar body the same genes from a common	•
	<b>20.</b> When a hard part of an organism leaves an empty space, the result	

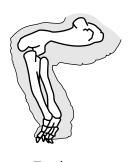
Name	Date	Class
Changes Over Time	Chapter Test	
=	<b>s: Interpreting Diagrams</b> nswer questions 21 and 22. Write y	our answers in the
		Cenozoic Era —
	Precambrian Time	Paleozoic Mesozoic Era Era
<b>21.</b> What is this figure of	called?	
<b>22.</b> How does the fossil	l record apply to this figure?	
<b>Essay</b> Answer each of the follow	ving in the spaces provided.	
23. What factors affect	natural selection?	
<b>24.</b> Describe the proces	s in which most fossils form.	
25. What do scientists to organisms?	use to determine evolutionary re	elationships among

Name	Date	Class

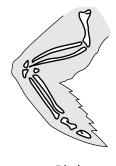
## **Changes Over Time** • Chapter Test

## **Using Science Skills**

Use the diagrams below to answer questions 26 and 27. Write your answers on a separate sheet of paper.







Turtle

Alligator

Bird

- **26. Interpreting Diagrams** Identify one way in which the bones of these three animals are similar.
- **27. Inferring** What do these structures provide evidence of? What can you infer about turtles, alligators, and birds from these structures?

## **Essay**

Answer each of the following on a separate sheet of paper.

- **28.** A continent pulls apart, and the parts become separated by an ocean. How could this event affect the species of organisms that populated the original continent?
- **29.** Scientists find a fossil of one type of fish in a rock layer near the bottom of a canyon. They find a fossil of another type of fish in a rock layer near the top of the canyon. Which fossil is probably older? Explain how you know, and identify the kind of dating you are using.
- **30.** Compare and contrast the theories of gradualism and punctuated equilibria.