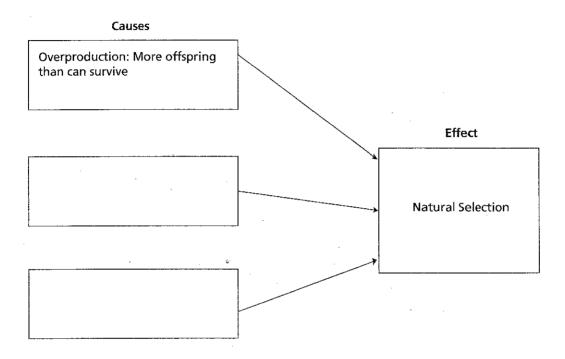
Changes Over Time • Guided Reading and Study

Darwin's Theory

This section discusses Charles Darwin and his theories of evolution, which are based on what he saw during his trip around the world.

Use Target Reading Skills

In the graphic organizer, identify factors that cause natural selection.



Darwin's Observations

- 1. Is the following sentence true or false? Charles Darwin was not surprised by the variety of living things he saw on his voyage around the world.
- 2. A group of similar organisms that can mate with each other and produce fertile offspring is called a(n) ______.
- is the preserved remains or traces of an 3. $A(n)_{-}$ organism that lived in the past.
- 4. Is the following sentence true or false? Darwin observed the greatest diversity of organisms on the Galápagos Islands.

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Darwin's Theory (continued)

Galápagos Organisms

- 5. Circle the letter of each sentence that is true about Darwin's observations.
 - **a.** Many Galápagos organisms were similar to organisms on mainland South America.
 - b. Iguanas on the Galápagos Islands had small claws for climbing trees.
 - c. Darwin thought the ancestors of Galápagos animals and plants came from mainland South America.
 - d. All tortoises living in the Galápagos Islands looked exactly the same.
- 6. Darwin noticed many differences among similar ______ as he traveled from one Galápagos island to the next.

Look at the bird beaks below. Match the bird beaks with the kind of food the bird eats.

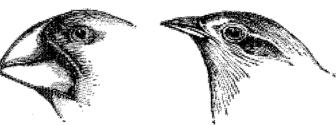
Kind of Food Bird Beaks

7. insects

8. seeds

a.

b.



9. A trait that helps an organism survive and reproduce is a(n)

Evolution

- 10. Circle the letter of each sentence that is true about Darwin's conclusions.
 - a. Darwin understood immediately why Galápagos organisms had many different adaptations.
 - **b.** Darwin thought that Galápagos organisms gradually changed over many generations.
 - c. Darwin believed that evolution had occurred on the Galápagos Islands.
 - d. Selective breeding helped Darwin understand how evolution might occur.

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11. Circle the letter of the explains many observationa. ideab. evolutionc. scientific theoryd. hypothesis		3 a v	well-tested concept t	hat				
Natural Selection								
-	L. In his book <i>The Origin of Species</i> , Darwin explained that evolution occurs by means of							
9	3. Is the following sentence true or false? Individuals with variations that make them better adapted to their environment will not survive.							
Match the factors that affect the process of natural selection with their definitions.								
Definitions		Fac	ctors					
14. Effect caused and other res	•		overproduction					
15. Differences b		b.	competition	•				
individuals o species		c.	variations					
16. Effect caused producing m than can surv	ore offspring							
17. Is the following sen genes can be acted to			•	trolled by				
18. Is the following sent	tence true or false?	Dar -	rwin knew all about ş	genes and				