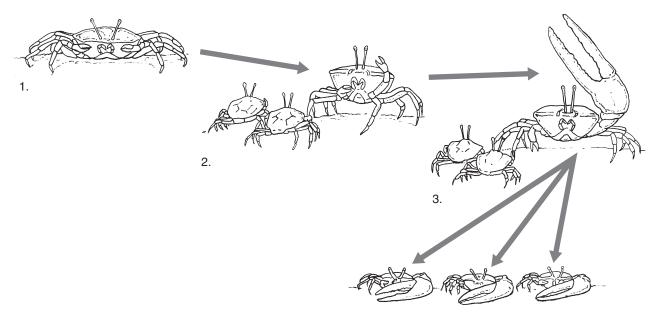
	ime Date
Se	ection 15–2 Ideas That Shaped Darwin's Thinking (pages 373–377
tho	TEKS FOCUS: 3A Analyze, review, and critique hypotheses; 3C Impact of research on scientific bught; 3F History of biology and contributions of scientists
	is section describes the theories of other scientists who influenced Darwin, luding Hutton, Lyell, Lamarck, and Malthus.
A	n Ancient, Changing Earth (pages 374–375)
1.	Two scientists who helped Darwin and others recognize how old Earth is were and
2.	Circle the letter of each idea that was proposed by James Hutton.
	a. Earth is a few thousand years old.
	b. Layers of rock are moved by forces beneath Earth's surface.
	c. Most geological processes operate extremely slowly.
	d. The processes that changed Earth in the past are different from the processes that operate in the present.
3.	Circle the letter of each sentence that is true about Lyell's work.
	a. His book, Principles of Geology, was published after Darwin returned from his voyage
	b. His work explained how awesome geological features could be built up or torn dow over long periods of time.
	c. His publications helped Darwin appreciate the significance of the geological phenomena that he had observed.
	d. He stressed that scientists must explain past events in terms of processes that they can actually observe.
4.	In what two ways did an understanding of geology influence Darwin?
La	marck's Evolution Hyphotheses (page 376)
5.	Is the following sentence true or false? Lamarck was among the first scientists to
	recognize that living things have changed over time.
	Is the following sentence true or false? Lamarck proposed that all organisms have an
6.	innate tendency toward complexity and perfection.

9. Which step in the diagram below shows the inheritance of acquired traits as proposed by Lamarck?



Population Growth (page 377)

- 10. Circle the letter of each sentence that is true about Thomas Malthus.
 - **a.** He was an important influence on Darwin.
 - **b.** He was an English naturalist.
 - **c.** He believed that war, famine, and disease limit the growth of populations.
 - **d.** His views were influenced by conditions in twentieth-century England.
- **11.** Is the following sentence true or false? The overwhelming majority of a species' offspring survive. _____