

# 15 Evolution

## BIG IDEA

Write the Big Idea for this chapter.

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Use the “What I Know” column to list the things you know about the Big Idea. Then list the questions you have about the Big Idea in the “What I Want to Find Out” column. As you read the chapter, fill in the “What I Learned” column.

<b>K</b> <i>What I Know</i>	<b>W</b> <i>What I Want to Find Out</i>	<b>L</b> <i>What I Learned</i>

# 15 Evolution

## 1 Darwin's Theory of Evolution by Natural Selection

**TEKS** 2(B), 2(C), 2(D), 3(F), 7(C),  
7(D), 7(E)

### MAIN IDEA

Write the Main Idea for this lesson.

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### REVIEW VOCABULARY

selective breeding

Recall the definition of the Review Vocabulary term.

*selective breeding*

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### NEW VOCABULARY

artificial selection

natural selection

evolution

Use your book to define each term.

*artificial selection*

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*natural selection*

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*evolution*

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Write a short paragraph that uses at least two of the terms above.

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# 1 Darwin's Theory of Evolution by Natural Selection (continued)

*Student Edition*, pp. 418–422  
*Reading Essentials*,  
pp. 169–171

**Summarize** three observations Darwin made in his research on the South American mainland.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**GET IT?** **Summarize** some of the experiences or observations that influenced Darwin during his voyage on the Beagle.

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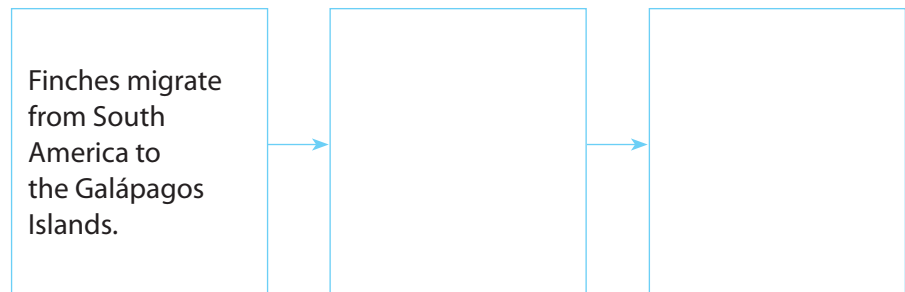
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**Identify** three organisms from the Galápagos Islands and their distinguishing characteristics.

Organism	Variation

**Analyze** Darwin's hypothesis on the origin of Galápagos finches by filling in the flow chart. The first step has been done for you.



# 1 Darwin's Theory of Evolution by Natural Selection (continued)

**Summarize** three observations that Darwin made in his research with pigeons.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**GET IT?** Explain the four principles of natural selection.

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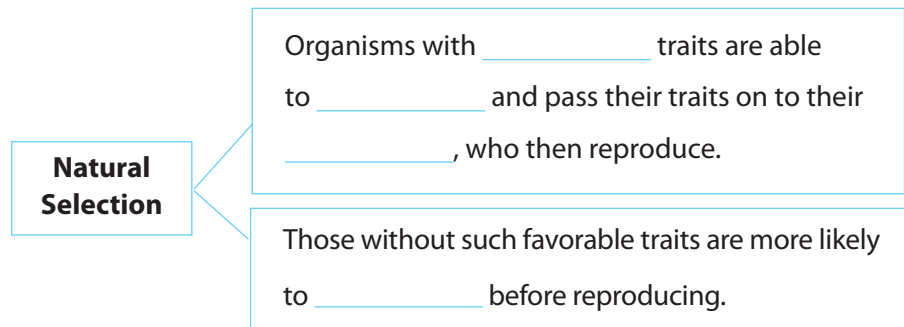
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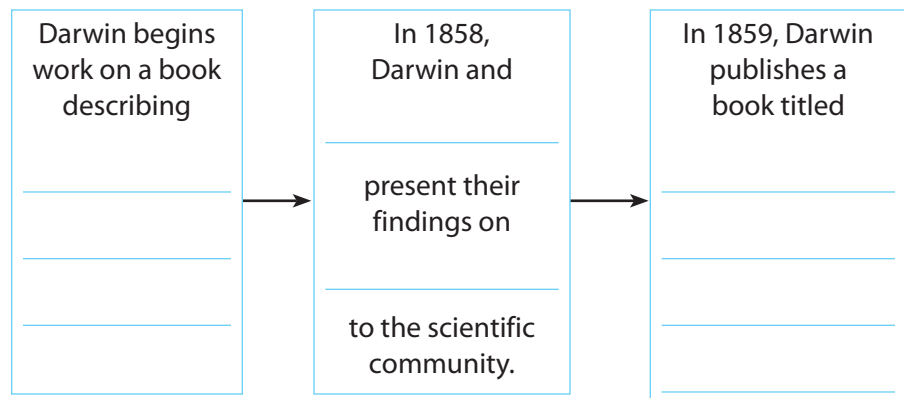
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**Summarize** natural selection by completing the sentences below.



**Sequence** the events that led to the publication of Darwin's ideas.



# 1 Darwin's Theory of Evolution by Natural Selection (continued)

## REVIEW IT!

1. **MAIN IDEA Describe** the evidence Charles Darwin gathered that led to his theory of evolution.

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2. **Explain** how the idea of artificial selection contributed to Darwin's ideas on natural selection.

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3. **Identify** the four principles of natural selection and provide examples not used in this section.

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4. **Discuss** Wallace's contribution to the theory of evolution by natural selection.

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5. **Infer** the consequences for evolution if species did not vary.

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6. Write a short story about what it might have been like to visit the Galápagos Islands with Darwin.

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