

Section 15-3 Darwin Presents His Case (pages 376-388)

This section explains the concepts of artificial selection, natural selection, and fitness. It also describes evidence for evolution.

Publication of *On the Origin of Species* (pages 376-378)

1. Is the following sentence true or false? Wilson Darwin returned to England, he rushed to publish his thoughts about evolution. False
2. The naturalist whose essay gave Darwin an incentive to publish his own work was Alfred Russel Wallace.
3. Circle the letter of each sentence that is true about Darwin's book, *On the Origin of Species*.
 - a. It was published in 1869.
 - b. It was ignored when it was first published.
 - c. It contained evidence for evolution.
 - d. It described natural selection.

Inherited Variation and Artificial Selection (page 379)

4. Differences among individuals of a species are referred to as variation.
5. Is the following sentence true or false? Genetic variation is found only in wild organisms in nature. True
6. Circle the letter of each sentence that is true about artificial selection.
 - a. It is also called selective breeding.
 - b. It occurs when farmers 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 380-383)

7. What was Darwin's greatest contribution? His greatest contribution was developing a scientific hypothesis to explain how evolution occurs.

Match each term with its definition.

	Terms
<u>c</u>	B. fitness
<u>d</u>	G. adaptation
<u>a</u>	H. 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.

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