

Biology Chapter 15-18 Notes

15-3 Darwin Presents His Case

- A. Publication of On the Origin of Species
- B. Inherited Variation and Artificial Selection
- C. Evolution by Natural Selection
 - 1. The Struggle for Existence
 - 2. Survival of the Fittest
 - 3. Descent With Modification
- D. Evidence of Evolution
 - 1. The Fossil Record
 - 2. Geographic Distribution of Living Species
 - 3. Homologous Body Structures
 - 4. Similarities in Embryology
- E. Summary of Darwin's Theory
- F. Evolutionary Theory Since Darwin

Publication of On the Origin of Species

- Darwin spent 5 years as the naturalist on The Beagle.
- When he returned to England he did not publish for over 25 years.
- Another naturalist gave Darwin the push to publish. His name was Alfred Russel Wallace.
- Darwin's book contained evidence for evolution and it described natural selection.

Inherited Variation and Artificial Selection

- Differences among individuals of a species are referred to as variation.
- Genetic variation is found among all species, whether domestic or wild.
- We use variation in artificial selection. It is selection by humans for breeding of useful traits from the natural variation among different organisms. It is also called selective breeding and produces organisms that look very different from their ancestors.

Evolution by Natural Selection

- Darwin's greatest contribution was developing a scientific hypothesis to explain how evolution occurs.
- He came up with several terms:
 1. Fitness- the ability of an individual to survive and reproduce in its specific environment.
 2. Adaptation- any inherited characteristic that increases an organism's chance of survival.
 3. Natural selection- survival of the fittest.

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Chapter 6 Review, pages 310-315 Knowledge 1. (d) 2. (b) 3. (d) 4. (b) 5. (c) 6. (a) 7. (a) 8. (d) 9. True 10. True 11. False. In a liquid, the particles vibrate and can easily slide past each other or move from place to place. 12. True 13. False. All air conditioners, refrigerators, and freezers use the evaporation of a liquid to absorb thermal energy from the air. 14. True 15. True 16. (a ...

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