

Evolution Study Guide Answer Key

1. A group of similar organisms that can mate with each other and produce fertile offspring. **Species**
2. What did Darwin infer from his observations of organisms in South America and the Galápagos Islands? **A small number of different plant and animal species had come to the Galapagos Islands from the mainland.**
3. Differences between members of the same species are called **Variation.**
4. What are genes and how are they involved in the process of evolution? **Genes control traits and only those traits can be acted on by natural selection.**
5. What is the main way that a new species forms? **A group is separated from the rest of the species.**
6. What are fossils and what are the different kinds of fossil evidence? **Fossils are the preserved remains or traces of organisms that lived in the past. (1) Mold: a type of fossil formed when a shell or other hard part of an organism dissolves, leaving an empty space in the shape of the part; (2) Cast: type of fossil formed when a mold becomes filled in with minerals that then harden; (3) Petrified fossil – a fossil formed when minerals replace all or part of an organism.**
7. What parts of organisms are most likely to become preserved as a fossil? **Hard parts – shells, bones, teeth.**
8. What parts of an organism can not be preserved as a fossil? **Cells, tissues, etc.**
9. Name the two methods of dating fossils and explain each.
(1) **Relative Dating - a method to compare the ages of two fossils based on the layer of rock in which it was found.**
(2) **Radioactive Dating- a technique used to determine the actual age of a fossil on the basis of the amount of a radioactive element it contains. Scientists compare the amount of the radioactive element left in the sample to the amount of the element that it breaks down into.**
10. What 5 types of evidence do scientists use to prove that organisms evolved from a common ancestor? **Fossils, Similarities in early development, similarities in body structure, DNA, and protein structure.**
11. These structures below are known as **homologous structures** and are evidence of a **common ancestor.**



12. Name the diagram to the right and explain what it is used for.

Branching tree – used to show how scientists think different groups of organisms are related.



13. What did Darwin observe about the finches in the Galapagos Islands?

Their beaks were adaptations related to the foods the finches eat.

14. What is an adaptation? **A trait that helps an organism survive and reproduce.**

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Liyong Dong



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