

## 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 organisms 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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**O García**



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