1. Define the following terms:
   1. Evolution -
   2. Fitness –
   3. Natural Selection –
2. What did people think about how the earth changed before modern science?
3. Who was Jean Baptiste Lamarck?
4. Give an example that would describe Lamarck’s theory of evolution.
5. How did people try to prove Lamarck wrong?
6. Who was Charles Darwin?
7. Give an example that would describe Darwin’s theory of evolution.
8. Darwin often saw a large number of offspring born each year. He also saw that not all of these organisms survived to maturity. What did Darwin call this idea?
9. How did the idea in #8 fit into the idea of natural selection?
10. Darwin also noticed that in any given population organisms had slight differences in their traits. What was this idea?
11. How did this fit in to his idea of evolution?
12. What is an adaptation? Can an adaptation be acquired by an organism?
13. Give an example of three different organisms that have adaptations that help increase their fitness.
14. List five different ways that scientists support evolution with data and evidence. Give a brief description of each.






1. What are two different ways to tell how old a fossil is?
2. Imagine there are two different fossils. One is found on the surface of a hill and the other is buried deep below the hill. Which one is older?
3. Describe the difference between a homologous and an analogous structure.
4. How can you explain the similarities between an emu and an ostrich?
5. How do modern scientists determine how closely related two different organisms are?
6. Why might the development of organisms play a key point in supporting evolution?
7. What is a phylogenetic tree?
   1. Give an example below.
8. What is convergent evolution? Please provide an example.
9. What is divergent evolution? Please provide an example.
10. What is artificial selection?
11. Give an example of artificial selection.