

Name : _____

Darwin's Theory of Evolution by Natural Selection

- There was a lot happening in the early 1800s – fossils, strata, etc.
- People believed that the different types of life that were seen through time were links in a ' _____ '
- Jean-Baptiste Lamarck was one of the first scientists to try to explain this chain using _____ rather than a _____
- Lamarck believed that animals became more and more _____, and that animals only kept the characteristics that were _____
- He also believed that whatever characteristics an animal developed during their life could be passed on to their offspring
- Lamarck was wrong....but he paved the way for others like Charles Darwin to think about evolution and natural selection

Name : _____

Charles Darwin

- Charles Darwin published _____ in 1859
- Every copy was sold the day it was released
- Many were furious, viewing the ideas in the book as _____, but most scientists recognized the power of his arguments
- Even today there is controversy in some circles about whether it is appropriate to teach Darwin's theory in science curriculum

Darwin's theory of evolution by natural selection:

1. _____ individuals are produced each generation than can _____
2. _____ exists among individuals and that variation can be passed down from generation to generation
3. Individuals with inherited traits _____ will survive and pass these traits to their own offspring

Name : _____

SO: the next generation will have a higher proportion of individuals with these favourable traits (adaptations), and the population as a whole will have evolved

- How far can evolution take us?
- Humans and chimps come from a common ancestor that lived about _____
- We have a common ancestor with whales about _____ years ago, and with kangaroos over _____ years ago