

Chapter 15 Keys to Success

What is the most basic definition of evolution?

Before Darwin, how did most biologists (such as Linnaeus) view species regarding their rate of change?

What were the conceptual contributions towards Darwin's evolutionary theory from Cuvier, Malthus and Lyell?

Darwin was not the first person to publish on evolution. Who was and why was he only half correct in his ideas?

How did the Galapagos tortoises and finches inspire Darwin's realization of his theory of evolution?

Regarding evolutionary theory, what are fitness and adaptation?

What is artificial selection? What kind of examples show the power of this process of change species?

How are moths and industrial melanism an example of evolution?

What are homologous structures vs. analogous structures? Examples?

What is a vestigial structure?

What are some pieces of biochemical evidence that support the theory of evolution?

Does evolution explain how life originated on Earth? Is it a completely random process?