

Name _____

Date _____

Block _____

THE THEORY OF EVOLUTION

Answer the questions below while watching the video clip.

1. When _____ published his book proposing the theory of evolution in 1859, it created a controversy that continues to this day.
2. There are 2 key notions (beliefs) in Darwin's theory:
 - a. All species _____ from _____ forms of life
 - b. Species _____ to their environments due to _____.

A New Understanding of Life

3. Fossilized bones of _____ species have been found by people around the world for hundreds or even thousands of years, but no one had the means of measuring how _____ the bones were.
4. Different types of fossils were _____ and _____ and many look _____ like the animals or plants that we see today.
5. Darwin's Theory of Evolution provided a _____ that helped scientists make sense of it all.

From the Big Bang to Early Life

6. Some scientists believe that life began as a tiny _____ cell 3.8 BILLION years ago. This cell is the ancestor of all life on the planet.
7. Sometime around 1.8 BILLION years ago, the _____ cells first begin to appear in the fossil record.
8. Once the heredity information of the organism was determined by both the male and the female, the possibility of _____ became much **greater**.

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The Proliferation of Species

9. The great proliferation of species has been concentrated in the last _____ million years.
10. Scientists divide this enormous stretch of time into _____ and _____.
11. Many organisms could not survive when their environments changed and _____ extinctions resulted, leaving only a few survivors who slowly rebounded.

The Evidence for the Theory of Evolution

12. The _____ provides some of the strongest evidence.
13. The study of _____ anatomy provides evidence that embryos of animals go through similar stages of development. Many organisms have groups of
- a. Bones
 - b. _____
 - c. muscles
 - d. _____
- that have the same anatomical plan but different _____.
14. Every living thing is made up of _____.
15. The strongest evidence for a common ancestry comes from the study of _____. It confirms the _____ of different species.
16. There is only a _____% difference in the genetic makeup of humans and chimpanzees.

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