Evolution - Lesson 1

Date:

Name:

Chimpanzees	unique	twisted	tissue	body
evolution	complicated	bodies	wondered	mutation
nucleus	passed	cells	reproduce	blocks

Have you ever ______ why elephants have long trunks, giraffes have long necks, or cheetahs can run so fast? Everything we see living around us is the result of _____.

Every organism is made up of ______. These cells have a ______ that contains chromosomes that hold DNA. DNA is short for deoxyribonucleic acid. It is a group of atoms stuck together to form a molecule. DNA is the shape of a double helix, which looks like a ladder ______ many times into a spiral. These chain-like chemicals have genes that include coded information that builds different species, including humans. Every species has ______ DNA.

In simple organisms, like a single-celled amoeba, reproduction happens by copying DNA within their own

_____. Then it moves each copy to one side and splits it into two fully formed organisms.

Sometimes errors happen when copying the DNA, changing the DNA code a little. This is called DNA

______. These mutations cause changes in the body shape and characteristics of the organism.

Then, these new characteristics will be ______ on to the new generations, resulting in the evolution of that species.

Evolution in humans and other larger creatures, such as dogs, cats, whales, etc., is more

_____. Humans have over 3 billion cells, and each cell has a job. Some cells make our

The body has 20 different amino acids that stick together to form proteins. Proteins combine to form cells, and the cells combine to form ______. Tissues combine to create muscles, bones, and organs that, when put together, become humans and other living organisms.

The DNA tells the amino acids how to combine to make perfect proteins that form the different kinds of cells that are our bodies' building ______.

Humans and other multi-celled organisms ______ by combining the DNA of the mother and father. The babies are a random mix of the DNA from both parents. This results in different traits and characteristics for each generation, like more prominent noses, longer legs, blue eyes, etc. Evolution in multi-celled organisms happens slowly and gradually over thousands or millions of years.

Did you know the DNA in all humans is 99% the same? Only 1% of our DNA is different from other humans and makes us unique. We also share 98% of the same DNA with ______.