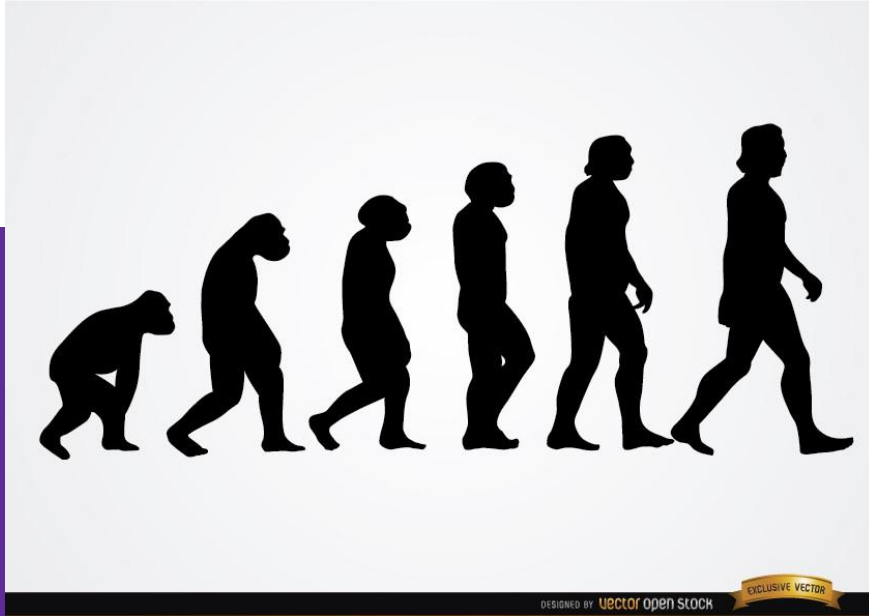


Evolution

From Primate to Sapiens



Where did it all begin?



Cosmogony

The word is derived from the Greek *kosmos* (order of the universe) and *genesis* (coming into being).

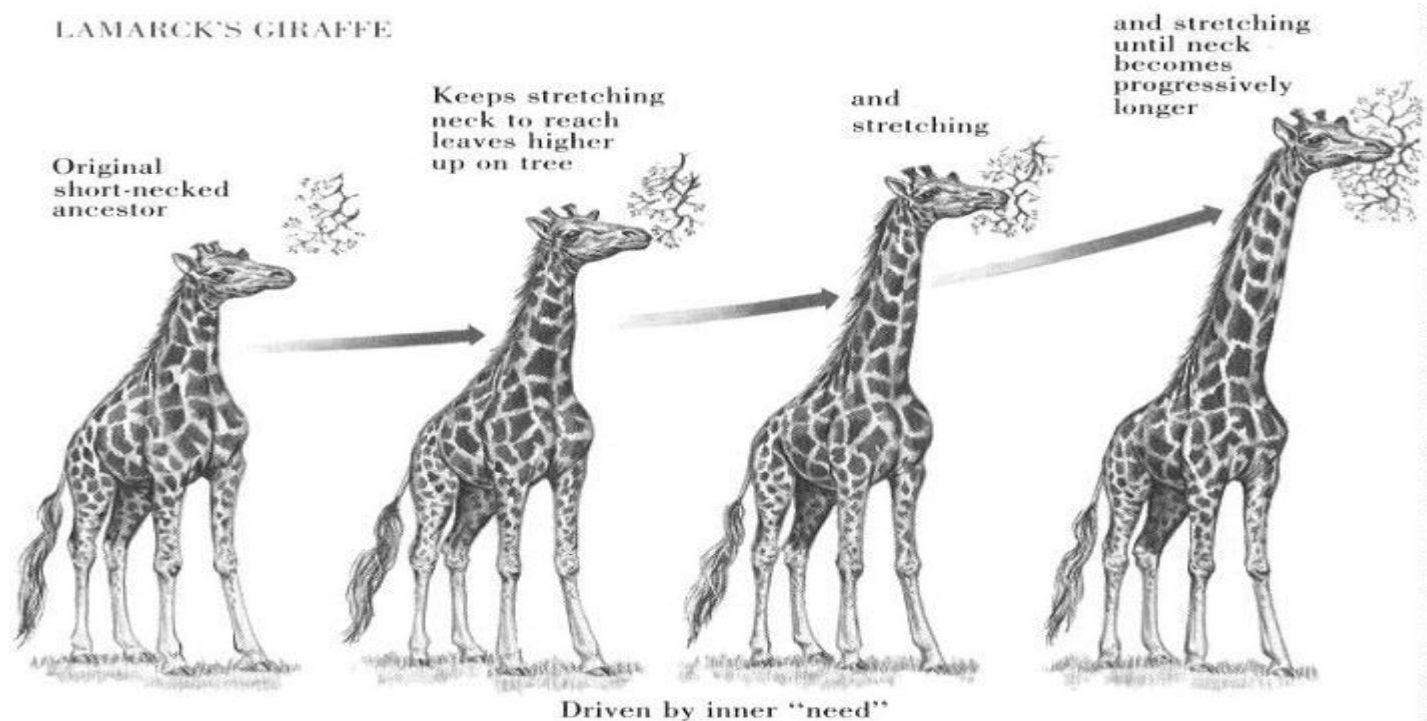
Many stories about humans, animals, the earth itself!

Creation Myths include:

1. Creation from nothing
2. Creation from chaos
3. Creation from egg
4. Creation through agency of a world diviner

Theory of Evolution

Lamarck first suggested the theory of evolution and is most famous to defining the following:



Charles Darwin - *Origin of Species by Means of Natural Selection*

In 1859, Charles Darwin proposed the following:

- Species (populations of interbreeding organisms) change over time and space.
- All organisms share common ancestors with other organisms. Over time, populations may divide into different species, which share a common ancestral population.
- Evolutionary change is gradual and slow in Darwin's view. This claim was supported by the long episodes of gradual change in organisms in the fossil record and the fact that no naturalist had observed the sudden appearance of a new species in Darwin's time.

Evolution and Natural Selection

1. Variation. Organisms (within populations) exhibit individual variation in appearance and behavior. These variations may involve body size, hair color, facial markings, voice properties, or number of offspring. On the other hand, some traits show little to no variation among individuals—for example, number of eyes in vertebrates.
2. Inheritance. Some traits are consistently passed on from parent to offspring.
3. Differential survival and reproduction. Individuals possessing traits well suited for the struggle for local resources will contribute more offspring to the next generation.

Are we still evolving?

If we have things to rely on (culture, artistic expression, science, technology, morals and laws, technology) do we still need to struggle to survive?

Hominids (human like creatures) began to appear 4 million years ago.

Modern Humans - approximately 40 000 years ago

Are we still evolving. What will humans look like in 40 000 years?

Homework

Human Evolution Questions Handout

Page 9 - The Scopes “Monkey Trial” - What was it? Why was it a landmark case?

Tomorrow - A Social Revolution Assignment

10 Mono-ethnicity



8

Muscle Atrophy



6

Loss of Hair



4

Smaller Teeth

