

10.1 Early Ideas About Evolution

Evolution:

A change in an population over time.

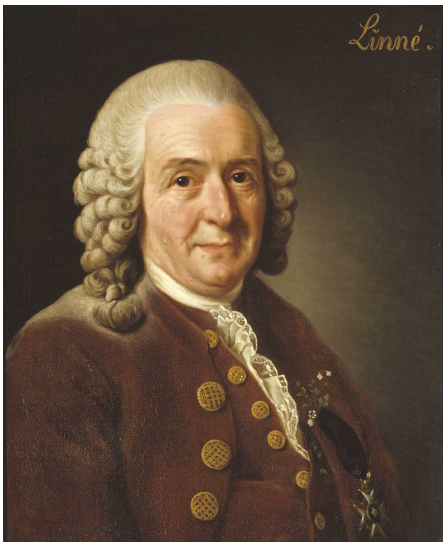


Theories of biological change

Scientist

Contribution

Linnaeus



Developed classification system based on physical similarities.

Buffon



Proposed that species share a common ancestor instead of arising separately.

E. Darwin (Charles Darwin's grandfather)



Proposed that all organisms descended from a common ancestor

Lamarck



Lamarck understood 2 things key to evolutionary change:

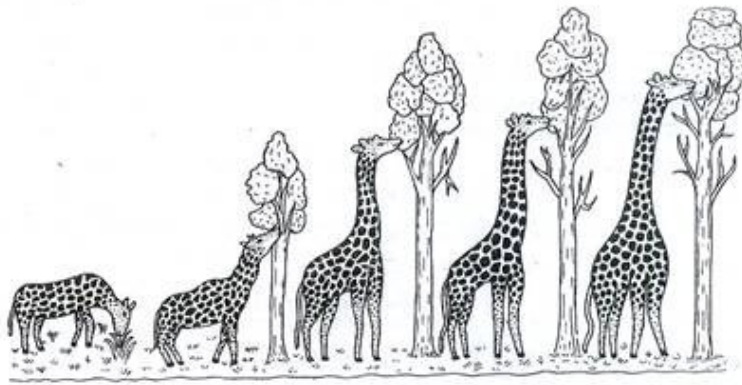
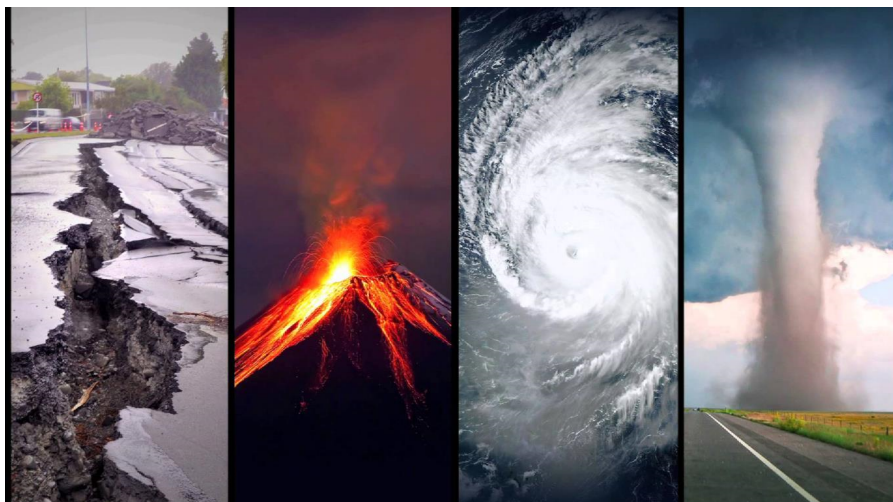


Diagram showing elongation of neck in giraffe according to Lamarck.

1. New physical forms and traits emerge in response to environmental changes.
2. These traits appear in subsequent generations

Theories of geologic change

Catastrophism



Gradualism and Uniformitarianism

