

morphology just means physical features

Name: _____ Date: _____

Life Science Notes 17
Evolution and Natural Selection

Evolution

Causes

1. Natural selection
2. Movement of individuals into and out of a population
3. Geographic isolation
4. Changes in climate

All of these still involve N.S.

Definition

Changes in the physical features of a population over time

Evolution happens very, very slowly over millions of years.

Humans have changed the environment faster than organisms can adapt.

Evidence

1. DNA
2. Fossil Record
3. Morphology
4. Embryology

DNA ~~contains~~ makes up genes

Genes contain the instructions for life.

Darwin's Theory of Evolution by Natural Selection

~~Lamarck~~

4 Principles

Natural Selection is not intentional!

Organisms produce more offspring than can survive

variations are found among individuals of a species.

Some variations help members in a population survive and pass
*
*
* on
* genes!

Over time species with helpful variations will appear
more often
each generation

Variations

Caused by

mutations

Helpful variations are called

adaptations