EVIDENCE OF EVOLUTION

Evolution = change over time

Organic evolution

Geologic evolution (Earth science)

The Evidence

A. Evidence from things that once lived FOSSILS

Extinct = No longer found alive

- Molds, Casts And Imprints
- Fossil bones and Petrification
- Amber and Ice

"Mr. U's Dating tips" AKA
"How to know how old your date is"

Relative dating

- Superposition
  Older fossils found in lower layers than younger fossils
- Correlation
  Comparing mineral composition and texture of rock layers in different locations.
- Index fossils
  Fossils w/ known range of existence.

Absolute dating
AKA
Radiodating

B. Evidence from living things

Anatomical Similarities AKA Comparative Anatomy

Homologous structures:

Similar:
structure
embryological origin

Different:
Form and function

Analogous structures:

Similar:
Form and function

Different:
structure
embryological origin

Vestigial Structures:

Reduced Form
No Function

Embryological Similarities comparing similarities in development

Molecular Similarities comparing similarities in DNA, protein, metabolism etc.