

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.