Fossil Records

shows change overtime
fossils can be dated by a variety of methods: age of rock where the fossil is found, rate fo decay of isotopes (carbon-14), relationship within phylogenetic trees, mathematical calculations from chemical properties/geographical data
if just one fossil turned up wrong, it would disprove evolution

Comparative Embryology

similar embryological development in closely related species

Molecular Biology and Biochemistry

measure of common ancestry
comparing DNA and protein structure: universal genetic code (DNA and RNA), cytochrome C (respiration), hemoglobin (gas exchange)

Biogeography

related organisms in similar range
geographical distribution of species: species living in the same region tend to be more closely related to each other, species which look similar but are from different regions are often not closely related
convergent evolution: evolving similar solutions to similar "problems"

Comparative Anatomy

convergent evolution of structures: similar functions, similar external form, different internal structure and development, different evolution, no evolutionary relationship
analogous structure: similar characteristic but no relationship
homologous structure: similarities in characteristics resulting from common ancestry
vestigal organs: modern animals may have structures that serve little or no function but used to for ancestors

Artificial Selection

induced evolution
artificial breeding can use differences between individuals to create vastly different "breeds" and "varieties"

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