

The environment selects for certain traits, favoring individuals with advantageous characteristics. This leads to the survival and reproduction of individuals with beneficial traits.

Speciation.

Overtime, accumulated changes can Lead to the formation of new species. This occurs when populations become reproductively isolated, and genetic differences accumulate.

Key points.

Evolution is a gradual, continuous process.

Genetic variation is the raw material for evolution.

Natural selection acts on existing variation, favoring beneficial traits.

Speciation occurs when populations become reproductively.

Example.

Evolution of whale's from land dwelling mammals.

Antibiotics resistance in bacteria.

Adaption of finches on the Galapagos islands.

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