

EVOLUTION

Explain the five principles of natural selection

EVOLUTION

Describe the five agents of evolutionary change acting on a population

EVOLUTION

Explain how reproductive (sympatric) isolation leads to speciation

EVOLUTION

Explain how geographic (allopatric) isolation leads to speciation

EVOLUTION

List & describe pre-reproductive barriers that lead to speciation

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List & describe post-reproductive barriers that lead to speciation

EVOLUTION

Explain how natural selection accounts for the range of species of Galapagos finches

EVOLUTION

Explain the difference between Darwinian & LaMarckian evolution

EVOLUTION

Explain how evolution accounts for both the diversity & the unity of life on Earth

EVOLUTION

Explain genetic drift & give two examples

EVOLUTION

Explain bottleneck effect & give an example

EVOLUTION

Explain founders effect & give an example

EVOLUTION

Explain sexual selection & give an example

EVOLUTION

Explain co-evolution & give an example

EVOLUTION

Explain directional selection & give an example

EVOLUTION

Explain stabilizing selection & give an example

EVOLUTION

**Explain disruptive selection.
Give an example**

EVOLUTION

**Explain how the fossil record supports evolution.
Give an example.**

EVOLUTION

**Explain how the anatomical record supports evolution.
Give an example.**

EVOLUTION

**Explain how the molecular record supports evolution.
Give an example.**

EVOLUTION

**Explain how the artificial selection supports evolution.
Give an example.**

EVOLUTION

Describe homologous structures, explain their evolutionary significance & give an example

EVOLUTION

Describe analogous structures, explain their evolutionary significance & give an example

EVOLUTION

**Explain convergent evolution.
Give an example.**

EVOLUTION

Describe vestigial organs, explain their evolutionary significance & give an example

EVOLUTION

Explain how pesticide resistance can occur in insects

EVOLUTION

Explain how antibiotic resistance can occur in bacteria

EVOLUTION

In a cat population the black allele is dominant to white. There are 16% white cats. How many black homozygotes & heterozygotes. Assume H-W equilibrium.

EVOLUTION

Explain heterozygote advantage. Give an example.

EVOLUTION

Explain the Ernst Mayr biological species concept

EVOLUTION

Explain the difference between gradualism & punctuated equilibrium

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