

## **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**

## **EVOLUTION**

**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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