

Full Higher Separate content. ★ = Higher Tier. ◆ = Separate Science only.

Q1. Describe how natural selection leads to a population becoming better adapted over many generations.

[5 marks]

Q2. State THREE types of evidence supporting Darwin's theory of evolution.

[3 marks]

Total: 8 marks

Q1 (5 marks)

Describe how natural selection leads to a population becoming better adapted over many gen...

- Variation exists in population (mutations) [1]
- Competition for limited resources [1]
- Better-adapted individuals survive and reproduce more [1]
- Advantageous alleles inherited by more offspring [1]
- Over generations, frequency of beneficial alleles increases [1]

Q2 (3 marks)

State THREE types of evidence supporting Darwin's theory of evolution.

- Fossil record — gradual change over time [1]
- DNA comparisons — related species share similar sequences [1]
- Direct observation of natural selection (antibiotic resistance) [1]