

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

**Q1. Explain how natural selection leads to evolution over many generations.**

[5 marks]

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**Q2. State THREE pieces of evidence that support evolution.**

[3 marks]

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**Total: 8 marks**

## Q1 (5 marks)

*Explain how natural selection leads to evolution over many generations.*

- Variation exists in population due to mutations [1]
- Competition for limited resources [1]
- Better-adapted individuals survive and reproduce more [1]
- Advantageous alleles passed to offspring [1]
- Over generations, frequency of advantageous alleles increases [1]

## Q2 (3 marks)

*State THREE pieces of evidence that support evolution.*

- Fossil record [1]
- DNA/molecular evidence [1]
- Antibiotic resistance / direct observation of natural selection [1]