

Foundation Separate version — Higher Tier (★) questions removed.

**Q1. Describe the mechanism of natural selection. Use the terms: variation, competition, survival, inheritance, allele frequency.**

[5 marks]

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**Q2. State THREE types of evidence that support Darwin's theory of evolution by natural selection.**

[3 marks]

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**Total: 8 marks**

**Q1 (5 marks)**

*Describe the mechanism of natural selection. Use the terms: variation, competition, surviv...*

- Random variation exists in a population due to mutations and sexual reproduction [1]
- Individuals compete for limited resources (food, space, mates) [1]
- Individuals with advantageous characteristics are more likely to survive and reproduce (survival of the fittest) [1]
- These individuals pass on the alleles for their advantageous characteristics (inheritance) [1]
- Over generations, the frequency of advantageous alleles increases in the population [1]

**Q2 (3 marks)**

*State THREE types of evidence that support Darwin's theory of evolution by natural selecti...*

- Fossil record: shows gradual changes in species over time [1]
- DNA evidence: closely related species share more similar DNA [1]
- Antibiotic resistance: observable natural selection happening today in bacteria [1] — accept: comparative anatomy