

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

**Q1. Describe the process of selective breeding to produce high-yield dairy cows.**

**[3 marks]**

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**Q2. Evaluate selective breeding as a method of improving crop plants.**

**[4 marks]**

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**Total: 7 marks**

**Q1 (3 marks)**

*Describe the process of selective breeding to produce high-yield dairy cows.*

- Select cows producing most milk [1]
- Breed these together; select highest-yielding offspring [1]
- Repeat over many generations [1]

**Q2 (4 marks)**

*Evaluate selective breeding as a method of improving crop plants.*

- Advantage: significantly improves yield, disease resistance [1]
- Advantage: well-established, no advanced technology needed [1]
- Disadvantage: reduces genetic diversity (gene pool narrowed) [1]
- Disadvantage: inbreeding increases disease/disorder risk in population [1]