

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

Q1. Explain the difference between a population, a community and an ecosystem.

[3 marks]

Q2. Explain the concept of interdependence in a community. Give ONE example.

[3 marks]

Total: 6 marks

Q1 (3 marks)

Explain the difference between a population, a community and an ecosystem.

- Population: all individuals of ONE species in a defined area [1]
- Community: all populations of different species in the same area [1]
- Ecosystem: a community plus the non-living physical environment [1]

Q2 (3 marks)

Explain the concept of interdependence in a community. Give ONE example.

- All organisms in a community depend on other species for survival [1]
- E.g. plants depend on insects for pollination; insects depend on plants for food [1]
- Removal of one species can affect many others in the community — cascade effects [1]