

**KEY FACTS**

- Abiotic factors: temperature, light, pH, water, soil minerals, wind
- Biotic factors: food availability, predators, competitors, disease
- Predator-prey cycle: prey  $\uparrow$   $\rightarrow$  predator  $\uparrow$   $\rightarrow$  prey  $\downarrow$   $\rightarrow$  predator  $\downarrow$   $\rightarrow$  prey recovers
- Adaptation: structural (physical), behavioural (actions), physiological (internal)
- Extremophiles: organisms adapted to extreme conditions (e.g. deep-sea vent bacteria)

**KEY TERMS**

<b>Abiotic</b>	Non-living physical/chemical factor affecting organisms
<b>Biotic</b>	Living factor affecting organisms — predation, competition, disease
<b>Adaptation</b>	Inherited characteristic improving survival/reproduction in an environment

■ EXAM TIP: When describing an adaptation: name the feature AND explain how it helps survival. Feature alone = 0 marks. Feature + survival benefit = 1 mark.