

**OBHS Core Questions:**

Subject: Science

Year and Term: Year 11 Autumn Term

Topic: B7 Ecology



Learn these questions to build a strong foundation of knowledge for this half-term. Ask family or friends to test you regularly, or practise on your own using the 'Look, Say, Cover, Write' method.

Question	Answer
1. What is a community in biology?	Lots of different species living and interacting in an area
2. What is interdependence?	When species rely on each other for food, shelter, pollination, etc
3. Give two resources plants compete for.	Light, water, nutrients, space
4. Give two things animals compete for.	Food, water, territory, mates
5. What is a stable community?	One where all species and environmental factors are balanced
6. Define an ecosystem.	The interaction of a community with abiotic (non-living) factors
7. What are abiotic factors?	Non-living environmental factors
8. Give two abiotic factors.	Light intensity, soil pH, temperature, water availability, humidity, wind
9. What are biotic factors?	Living factors that affect a community
10. Give two biotic factors.	New predators, competition, food availability
11. What is adaptation?	Features that help an organism survive in its environment
12. Name one structural adaptation of a polar bear.	Thick fur, large claws, large feet
13. What is an extremophile?	An organism that lives in extreme conditions
14. What is a producer?	A plant or algae that makes its own food by photosynthesis
15. What do the arrows represent in a food chain?	The flow of energy
16. What is the role of decomposers?	Break down dead material and recycle nutrients

17. What do predator-prey graphs show?	Population cycles of predators and prey
18. What is the carbon cycle?	The movement of carbon through living things and the environment
19. What is the water cycle?	The movement of water through evaporation, condensation, and precipitation
20. What is biodiversity?	The variety of living things in an ecosystem
21. What is deforestation?	Cutting down trees
22. Name one cause of water pollution.	Fertilisers running into rivers, plastics entering the water systems
23. How does deforestation affect the environment?	Reduces biodiversity and increases CO <sub>2</sub> levels.
24. What are two ways to maintain biodiversity?	Breeding programs and protecting habitats.
25. Why is recycling important?	Reduces waste and helps protect ecosystems.