Revision checklist

CB9 Ecosystems and Material Cycles

CB9a Ecosystems

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4 th	State what is meant by the ecological terms community, population and habitat.			
4 th	Give examples of an ecosystem, a community, a population and a habitat.			
5 th	Describe the organisation of the components of an ecosystem (including populations, communities, habitats and abiotic factors).			
6 th	Describe how the interdependence of organisms in an ecosystem allows their survival.			
6 th	Explain how to estimate population size, including the use of quadrats.			

CB9b Abiotic factors and communities

Step	Learning outcome	Had a look	Nearly there	Nailed it!
3 rd	Give examples of abiotic factors.			
6 th	Explain how communities are affected by abiotic factors (temperature, light, water, pollutants).			
7 th	Explain how to investigate the effect of abiotic factors on the distribution of organisms using belt transects.			

CB9c Biotic factors and communities

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Give examples of biotic factors.			
6 th	Describe how competition can affect communities.			
6 th	Describe how predation can affect communities.			
7 th	Explain how predator–prey cycles affect communities.			
9 th	Explain how the structure of a community can affect biodiversity.			

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CB9d Parasitism and mutualism

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7 th	Define the term 'parasitism'.			
7 th	Define the term 'mutualism'.			
7 th	Describe how parasites are dependent on their hosts.			
7 th	Describe how hosts are harmed by parasites.			
7 th	Identify parasites and mutualists in examples.			
8 th	Explain how mutualists benefit from their relationship.			

CB9e Biodiversity and humans

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Define the term eutrophication.			
5 th	Describe examples of the introduction of non-indigenous species.			
6 th	Describe the advantages of fish farming.			
7 th	Explain how fish farming can affect ecosystems and biodiversity.			
7 th	Explain how the introduction of species can affect ecosystems and biodiversity.			
7 th	Explain how eutrophication can affect ecosystems and biodiversity.			

CB9f Preserving biodiversity

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Define the term conservation.			
5 th	Explain what is meant by reforestation.			
5 th	Give examples of animal conservation.			
7 th	Explain how animal conservation can benefit biodiversity.			
7 th	Explain how reforestation can benefit biodiversity.			

Revision checklist

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CB9g The water cycle

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5 th	Give examples of materials that cycle through ecosystems.			
4 th	Describe the processes by which water cycles through abiotic parts of an ecosystem.			
5 th	Describe the processes by which water cycles through living organisms.			
5 th	Describe how drinking water is produced where water is plentiful.			
7 th	Explain how drinking water can be produced by desalination in areas of drought.			
7 th	Explain why water is important to living organisms.			

CB9h The carbon cycle

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Give examples of decomposers.			
6 th	Define the term decomposer.			
7 th	Describe the carbon cycle.			
7 th	Identify the key processes in the carbon cycle.			
8 th	Explain how carbon is cycled through the biotic and abiotic components of an ecosystem.			
8 th	Explain the importance of the carbon cycle (in balancing photosynthesis and respiration, and removal of wastes by decomposition).			

CB9i The nitrogen cycle

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Describe how plants use nitrates.			
7 th	Describe the different roles of bacteria in the nitrogen cycle.			
7 th	Explain how fertilisers increase the nitrate content of the soil.			
8 th	Explain why bacteria are important for soil fertility.			
8 th	Explain how crop rotation can increase the nitrogen content of the soil.			