

## Energy and ecosystems

Specification reference	Checklist questions	
3.5.3	Can you explain how energy enters an ecosystem?	<input type="checkbox"/>
3.5.3	Can you explain how energy is transferred between the organisms in the ecosystem?	<input type="checkbox"/>
3.5.3	Can you define the terms: trophic level, food chain, food web, producer, consumer, and decomposer?	<input type="checkbox"/>
3.5.3	Can you define biomass and explain how it is measured?	<input type="checkbox"/>
3.5.3	Can you calculate the percentage of energy that is transferred from one trophic level to the next?	<input type="checkbox"/>
3.5.3	Can you explain how energy is lost along a food chain?	<input type="checkbox"/>
3.5.3	Can you explain what is meant by gross primary productivity and net primary productivity?	<input type="checkbox"/>
3.5.3	Can you summarise the common features of all nutrient cycles?	<input type="checkbox"/>
3.5.3	Can you describe the features of the phosphorous cycle?	<input type="checkbox"/>
3.5.3	Can you describe the features of the nitrogen cycle?	<input type="checkbox"/>
3.5.3	Can you define the terms ammonification, nitrification, nitrogen fixation, and denitrification?	<input type="checkbox"/>
3.5.4	Can you explain the roles of saprobiotic organisms in nutrient recycling?	<input type="checkbox"/>
3.5.4	Can you explain why fertilisers are needed in agricultural ecosystems?	<input type="checkbox"/>

Specification reference	Checklist questions	
3.5.4	Can you distinguish between natural and artificial fertilisers?	<input type="checkbox"/>
3.5.4	Can you explain how fertilisers increase productivity?	<input type="checkbox"/>
3.5.4	Can you describe the main environmental effects of using nitrogen-containing fertilisers?	<input type="checkbox"/>
3.5.4	Can you state the meaning of leaching eutrophication?	<input type="checkbox"/>
3.5.4	Can you explain how leaching and eutrophication affect the environment?	<input type="checkbox"/>