

B17 Organising an ecosystem

Lessons TBAT	Key Knowledge	Practical	Assessment
<p>Explain the main feeding relationships within a community</p> <p>Describe how materials are recycled in a stable community</p> <p>Explain the process of the carbon cycle</p>	<p>Students should understand that photosynthetic organisms are the producers of biomass for life on Earth.</p> <p>Feeding relationships within a community can be represented by food chains.</p> <p>All food chains begin with a producer which synthesises molecules. This is usually a green plant or alga which makes glucose by photosynthesis.</p> <ul style="list-style-type: none"> - Producers are eaten by primary consumers, which in turn may be eaten by secondary consumers and then tertiary consumers. - Consumers that kill and eat other animals are predators, and those eaten are prey. In a stable community the numbers of predators and prey rise and fall in cycles. <p>Students should:</p> <ul style="list-style-type: none"> • recall that many different materials cycle through the abiotic and biotic components of an ecosystem • explain the importance of the carbon and water cycles to living organisms. <p>All materials in the living world are recycled to provide the building blocks for future organisms. The carbon cycle returns carbon from organisms to the atmosphere as carbon dioxide to be used by plants in photosynthesis. The water cycle provides fresh water for</p>	<p>N/A</p>	<p>End of unit test</p>

B17 Organising an ecosystem

	<p>plants and animals on land before draining into the seas. Water is continuously evaporated and precipitated.</p> <p>Interpret and explain the processes in diagrams of the carbon cycle, the water cycle.</p>		<p>Maths Skills</p> <p>Interpret graphs used to model predator-prey cycles.</p>
--	--	--	---

B17 Organising an ecosystem

		<p>Key stage 3</p> <p>Relationships in an ecosystem</p> <ul style="list-style-type: none">• the interdependence of organisms in an ecosystem, including food webs and insect pollinated crops• the importance of plant reproduction through insect pollination in human food security• how organisms affect, and are affected by, their environment, including the accumulation of toxic materials
--	--	---

B17 Organising an ecosystem