

<b>Topics in this cycle:</b> Interdependence	<b>Taught:</b> Spring 2	<b>Year Group:</b> 8
<b>Key knowledge/concepts to be learnt ('Tell me about...')</b>		<b>Websites/blogs/YouTube links and further reading to deepen and consolidate learning</b>
<ul style="list-style-type: none"> <li>• <b>What are food chains and food webs?</b> State what food chains and food webs are. Describe what food chains and food webs show. Combine food chains to form a food web.</li>   <li>• <b>What causes disruption to food chains and food webs?</b> State factors that affect the population of a species. Explain how toxic materials can accumulate in a food web and the effect on different populations. Explain the importance of insect pollinators to food supplies.</li>   <li>• <b>What is an ecosystem?</b> State what is meant by ecosystem, community, habitat, environment and niche. Describe how different organisms co-exist within an ecosystem.</li>   <li>• <b>What do plants and animals compete for?</b> State what animals and plants compete for. *Describe the interaction between predator and prey populations.</li> </ul>		<p><b>Notes:</b></p> <p>Food chains and food webs  <a href="#">Food chains and webs - Ecosystems and habitats - KS3 Biology – BBC Bitesize - BBC Bitesize</a></p> <p>Changes to food webs  <a href="#">Changes to food webs - Ecosystems and habitats - KS3 Biology - BBC Bitesize - BBC Bitesize</a></p> <p><b>Videos:</b></p> <p>What are ecosystems?  <a href="#">Ecosystems   Biology – Life Lessons - YouTube</a></p> <p>Key terms from the ecosystem's unit explained.  <a href="#">KS3 and common Entrance Environment and Interdependence key terms - YouTube</a></p> <p>Food chains and food webs.  <a href="#">Food Chains &amp; Food Webs   Ecology &amp; Environment   Biology   FuseSchool - YouTube</a></p>

# Home-School Learning Collaboration – KS3 Science

Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?
<b>Food chain</b>	Part of a food web, starting with a producer and ending with a top predator. This diagram shows the transfer of energy between organisms.	<p><b>Extended writing</b> – Explain in detail how the different niches occupied by three organisms in a habitat mean that organisms can co-exist.</p> <p><b>End of Unit test:</b> 25 minutes/25 marks</p> <ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Extended writing</li> <li>• 3 marks for SPAG</li> </ul>
<b>Producer</b>	Green plant or algae that makes its own food using sunlight by the process of photosynthesis.	
<b>Consumer</b>	Animal that eats other plants or animals.	
<b>Prey</b>	An animal that is eaten by another animal.	
<b>Predator</b>	An animal that eats other animals.	
<b>Food web</b>	A diagram that shows how food chains in an ecosystem are linked.	<p><b>Family Learning Opportunities</b></p> <p>Worksheets, videos and other resources on interdependence and beyond to stretch pupil.</p> <p><a href="#">Ecology and interdependence teaching resources   the science teacher</a></p> <p>Collaborative learning opportunity with videos, notes and a quiz.</p> <p><a href="#">Outdoor Education - Wild Animal Showdown! (google.com)</a></p> <p>Outdoor activity ideas for the family to explore food chains and interdependence in the great outdoors.</p> <p><a href="#">Home   National Trust</a></p>
<b>Decomposers</b>	Organisms that break down dead plant and animal material so nutrients can be recycled back to the soil or water.	
<b>Interdependence</b>	The way in which living organisms depend on each other to survive, grow, and reproduce.	
<b>Population</b>	Group of the same species living in an area.	
<b>Bioaccumulation</b>	The build-up of toxic chemicals inside organisms in a food chain.	
<b>Ecosystem</b>	The living things in a given area and their non-living environment.	
<b>Community</b>	The collection of different types of organism present in an ecosystem.	
<b>Habitat</b>	The area in which an organism lives.	
<b>Environment</b>	The surrounding air, water, and soil where an organism lives.	
<b>Niche</b>	A particular place or role that an organism has in an ecosystem.	