Oughterside Foundation School - Science						
Topic: Food chains and food webs		Year: 4	Strand: Biology			
	What should I already know?	What will I know by the end of the unit?				
Animals	can be grouped into carnivores, herbivores and	• A food chain is a simple way to show the direction in which				
	es and other ways in which to classify animals.	energy moves from the producer to the various consumers				
	rences between the teeth (incisors, molars,	to the top or tertiary consumer.				
canines) of carnivores and herbivores.		• The producer (a plant) gets its energy from the Sun.				
-	s of habitats (including microhabitats) and the					
	and plants that can be found there.	(♥+∞+Q > \\+∞+Q	$\rightarrow \mathbb{V}^{+} \mathbb{O}^{+} \mathbb{O}^{+}$			
	ed sunlight to grow.	producer primary consumer	secondary consumer tertiary consumer			
-	ngs depend on each other to survive.	• In this example, the produce	r is the wheat which gets its			
	n life processes and that nutrition is one of them.	energy from the Sun.	is the wheat, which gets its			
	n is the life process by which animals get energy. ironments are changing.	• The mouse eats the wheat ar	nd gets its energy from it The			
		mouse is the primary consun				
	Vocabulary	• The mouse is then eaten by the owl, which is the secondary				
canine	pointed teeth near the front of the mouth	consumer. The owl gets its e	•			
	of humans and of some animals	owl is the predator and the n				
carnivore	an animal that eats meat	• The owl is then eaten by the				
classification key	a system which divides things into groups or types	consumer. The wolf gets its	energy from the owl.			
energy	the ability and strength to do physical things	The arrows show the direction	on in which the energy travels.			
	all the circumstances, people, things, and events	What is a	food web?			
environment	around them that influence their life	• A food web shows the direct	ion in which energy travels			
	a series of living things which are linked to each	when animals and producers	(plants) are eaten by more			
food chain	other because each thing feeds on the one next to it	than one thing.				
	in the series	• A food web shows multiple f				
food web	a combination of food chains that integrate to form a network	multiple feeding relationship	S.			
	the natural environment in which an animal or	Example:	•			
habitat	plant normally lives or grows	Dragonfly	Buzzard Fox			
herbivore	an animal that only eats plants					
incisor	the teeth at the front of your mouth which you use	Snake				
	for biting into food					
life processes	There are seven processes that tell us that living things are alive					
microhabi-	a small part of the environment that supports					
tat	a habitat , such as a fallen log in a forest	Butterfly	Mouse Mouse			
molar	the large, flat teeth towards the back of your mouth		mouse			
IIIUIdI	that you use for chewing food	Greenfly	Rabbit			
nutrition	the process of taking food into the body and					
	absorbing the nutrients in those foods person or animal eats all kinds of food, including	Grasshopper				
omnivore	both meat and plants					
organism	a living thing		Plantain			
predator	an animal that kills and eats other animals	Berries				
prey	an animal hunted or captured by another for food	• When part of the food chain	is removed, this has an impact			
primary	an organism that feeds on producers . They are		d chain. The number of some			
consumer	always herbivores.	species will increase, while the	ne population of others will			
producer	organisms that make their own food using energy from the Sun.	decrease.				
secondary	organisms that eat primary consumers for		on the survival of the species.			
consumer	energy	• The population of tertiary co				
tertiary con-	Tertiary consumers eat primary and secondary	populations of producers, pr	imary and secondary			
sumer	consumers as their main source of food	consumers.				

Investigate!

- Match predators and their prey depending on their habitats.
- Create food chains for different habitats and compare them. How do the producers, predators and prey compare? What are their teeth like?
- Compare animal populations and explain why some populations (e.g. insects) might be higher than others (e.g. wolves)
- Explore what happens when part of a **food chain** is removed.
- Create food webs.
- Explore how the changing environment is having an impact on feeding relationships and food chains/webs.

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Question 1: Look at this food chain. Draw arrows to show the direction in which the energy travels.							
(hithe Aught hithe	grasshop)	E	fox			
grass	grassnop	pper	frog	ΙΟΧ			
These questions are based on the food chain above.	Start o	f unit:		End of unit:			
Question 2: What is the producer in the food chain?							
Question 3: What is the primary consumer?							
Question 4: Give an example of a predator from the food chain.							
Question 5: Give an example of prey from the food chain.							
Question 6: Which habitat would you find this food chain in?							
Question 7: What type of teeth would the fox have? Explain why.							
Question 8: A grasshopper is typically a herbivore. Explain what this means.							
Question 9: Name two things to this food chain that will happen if frogs become extinct.							
Question 10: Where do plants get their energy from?							