Subject	Term	Unit	Intent	
Science- Year 4	Autumn 2	Animals including humans	Interweaving knowledge and enquiry to discover the world around us.	Contraction of the second

	Prior knowledge	National Curriculum			
 identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat identify that humans and some other animals have skeletons and muscles for support, protection and movement 		 describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey. 			
What?	What? To understand how animals eat and digest food. To look at how food chains work.				
Why?	The children need to understand how teeth are used in digestion to better understand how digestion works. The children need to understand where food comes from- this links to their DT learning.				
How?					
	Vocabulary				
Absorb		-			
Canine	Pointed teeth near the front of t	f the mouth of humans and of some animals.			
Carnivor	e An animal that eats meat	animal that eats meat			
Decay	Gradually destroyed by a natura	l process.			
Digestio	n Breaking down ingested food ma	aterial.			
Ename		orms the outer part of the tooth.			
Excretio	The process of eliminates faces, urine or sweat form the body.				
Faeces The solid waste substance that p by passing it through the anus.		people and animals get rid of from their body			
Herbivo	re An animal that only eats plants.				
Incisor	-	outh which you use for biting into food.			
Ingested When animals or plants ingest a sul themselves for e.g. by eating or abs		absorbing.			
The tubes in your body through		which tood passes when it has left			

Intestines The tubes in your body through which food passes when it has left your stomach.

Molar	The large, flat teeth towards the back of your mouth t hat you use for chewing your food.			
Muscles	Something inside your body that connects to bones and which you use when you make a movement.			
Nutrition	The process of taking food into the body and absorbing the nutrients in the foods.			
Oesophagus	sophagus The part of your body that carries food from the throat to the stomach.			
	Person or animal that eats all kind of food incusing meat and plants.			
Organ	Apart of your body that has a particular purpose.			
Plaque	A substance containing bacteria that forms on the surface of your teeth.			
Premolar	Two situa	Two situated on each side of the jaws between the first molar and the canine.		
Saliva	A watery liquid that forms in your mouth and helps you to chew and digest food.			
		Learning		
Objec	tive	Learning		
		Identifying and classifying		
Can I expla	ain the	• Canines - pointed for tearing and ripping food. These are		
different r	names of	usually		
teeth and	their	Used when chewing meet.		
functions?)	 Incisors - are shovel shaped and help bite lumps out of and 		
		cutting food.		
		• Premolars and Molars - are flat and they grind and crush food.		
		Show children pictures. Get them to use mirrors to look		
		at their own teeth. Draw and label the different teeth		
		with their function.		
		Molars Premolars Canine		
Can I obse	rve?	Observing over time		
How does		Use the fair test planning boards. Ask the children to		
shell/ toot	h/	work in small groups to think about the variables that we		
chicken bo	one	will change and measure. What happens observe and		
change when it is		record findings in a self-created table.		
left in cola?				

	Explain what they have found out. Give reasons. What do	
	we need to do to keep our teeth healthy? Why do we	
	need to do this?	
	Identifying and classifying	
	 The smell of food triggers saliva to be produced. 	
	• tongue pushes the food around while you chew with	
	your	
	teeth. When you're ready to swallow, and pushes a tiny	
	bit of	
	mushed-up food towards your throat.	
	\cdot The digestive system begins with the mouth and	
	teeth where	
	food is ingested and chewed.	
	\cdot Saliva is mixed with the food which helps to break it up.	
	\cdot When the food is small enough to be swallowed, it	
	is pushed	
Can I identify?	down the oesophagus by muscles to the stomach.	
	In the stomach, food is mixed further.	
What are the	• The mixed food is then sent to the small intestine which	
names for all the	absorbs nutrients from the food.	
organs involved in	any left over broken food then moves on to the large	
the digestive	intestine.	
system? What does each of	 The food minus the nutrients arrives in the rectum where 	
the organs do?	muscles turn it into faeces. It is stored here until it	
	is pushed out	
	by the anus. This is called excretion.	
	Have a picture of the digestive system. Work through	
	each stage explaining what is happening. What is the	
	digestive system? - BBC Bitesize	
	Children to label the diagram with the different functions	
	of each part of the digestive system.	
	The Digestive System Worksheet 1 Lobel the dagram of the digestive system. Use the word bank to help.	
	karge intestine mouth stomach oesophagus small Intestine	
	Carry Million Lang Accounty	

Can I classify organisms in a food chain/web? <i>consumers,</i> <i>predators, prey,</i> <i>omnivores,</i> <i>carnivores and</i> <i>herbivores</i>	Identifying and Classifying Give children food chains to look at and identify and classify the animals to consumers, predators, prey or omnivores, herbivores, carnivores. Model to the children how the food chain works. Labelling each section. Discuss the transfer of energy and how they all start from a plant/producer. $\underbrace{Froducer}_{Froducer} + \underbrace{Froducer}_{Consumer} + \underbrace{Fredator}_{Fredator} + Fredator$	
	Give children different examples to label. Ask the children to answer questions about the food chain. Which animal is the predator? Etc.	
Can I explain who eats who in each habitat?	Comparison Construct and interpret different food chains Producer, consumer, predator, prey . Ask the children to use a range of pictures to create their own food chains. This could be done physically or using computer software Purple Mash and J2E. Label with the different parts of the food chain.	
Can I classify teeth? Who's Teeth?	Classifying and identifyingChildren to have a variety of animals teeth - herbivoresand carnivores. They need to classify the teeth.Explaining why they have classified them. Why do certainanimals have certain teeth? How does this link to thefood chain?	

Websites

What are the types of teeth? - BBC Bitesize What is the digestive system? - BBC Bitesize Why do animals have different teeth? - BBC Bitesize

Recommended Reads



Golden Thread Animals including humans