

Subject: Science  
Year group: 4  
Term: Summer  
Unit name: Animals including humans

<b>National curriculum:</b>	
<ul style="list-style-type: none"> <li>Describe the simple functions of the basic parts of the digestive system in humans.</li> <li>Identify the different types of teeth in humans and their simple functions.</li> <li>Construct and interpret a variety of food chains, identifying producers, predators and prey.</li> </ul>	
<b>Key vocabulary</b>	
Canine	pointed teeth near the front of the mouth of humans and of some animals
Carnivore	an animal that eats meat
Decay	gradually destroyed by a natural process
Digestion	breaking down ingested food material
Enamel	the hard white substance that forms the outer part of a tooth
Food chain	a series of organisms each dependent on the next as a source of food.
Herbivore	an animal that only eats plants
Incisor	the teeth at the front of your mouth which you use for biting into food
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 that you use for chewing food
nutrients	a substance that provides nourishment essential for the maintenance of life and for growth.
Oesophagus	the part of your body that carries the food from the throat to the stomach
Omnivore	person or animal eats all kinds of food, including both meat and plants
Plaque	a substance containing bacteria that forms on the surface of your teeth
Predators	an animal that naturally preys on others.
Premolar	two situated on each side of both jaws between the first molar and the canine
Prey	an animal that is hunted and killed by another for food.
Producers	an organism which produces its own food through photosynthesis
Saliva	the watery liquid that forms in your mouth and helps you to chew and digest food
Stomach	the organ inside your body where food is digested before it moves into the intestines
<b>Spiritual Development</b>	
As this unit links different aspects of learning about the human body, children will need to make connections and links within what they learn. <i>Proverbs 18:15: An intelligent heart acquires knowledge and the ear of the wise seeks knowledge.</i>	

**Prior Knowledge** - The parts of the human body and what they do. All animals need water, air and food to survive. The different ways in which humans are healthy. Animals get nutrition from what they eat. Humans and some animals have skeletons and muscles for support, protection and movement. What carnivores, omnivores and herbivores are. Excretion is one of the seven living processes.

<b>Scientific enquiry</b>	
Classifying	Compare and contrast different types of teeth (linking to simple functions). Classify jaw bones/teeth to aid with making food chains e.g. recognise what eats plants and what eats animals by looking at their teeth.
Observing over time	Not relevant
Pattern seeking	Not relevant
Comparative/fair testing	Not relevant
Researching	Research the different parts of the digestive system. (Children present what they've learned in different ways: create a model, write a song, write a story, create a PPT, etc.). Research what different animals eat within a specific environment, e.g. coral, polar, African grasslands, in order to construct food chains.

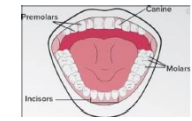
**Key Learning Assessment Statements- what will the children know by the end of the unit?**

Food enters the body through the mouth. Digestion starts when the teeth start to break the food down. Saliva is added and the tongue rolls the food into a ball. The food is swallowed and passes down the oesophagus to the stomach. Here the food is broken down further by being churned around and other chemicals are added. The food passes into the small intestine. Here nutrients are removed from the food and leave the digestive system to be used elsewhere in the body. The rest of the food then passes into the large intestine. Here the water is removed for use elsewhere in the body. What is left is then stored in the rectum until it leaves the body through the anus when you go to the toilet. Humans have four types of teeth: incisors for cutting; canines for tearing; and molars and premolars for grinding (chewing). Living things can be classified as producers, predators and prey according to their place in the food chain.

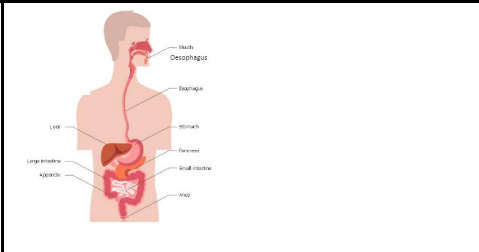
**To understand that animals have teeth to help them eat.** Teeth are used for cutting and chewing food. They start the digestive process which gives us the energy we need to live.

**To understand the importance of oral hygiene.** Humans look after their teeth by brushing and flossing and ensuring that they do not eat foods high in sugar. Not looking after teeth can lead to an increase in plaque and tooth decay.

**To know the different names and functions of human teeth.** Canines are pointed for tearing and ripping food - these are usually used when chewing meat. Incisors are shovel shaped and help bite lumps out of and cutting food. Premolars and molars are flat and they grind and crush food.

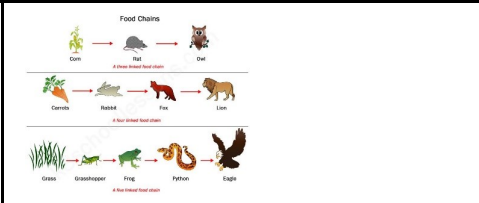


**The understand that in the digestive system, food is broken down by the teeth and further in the stomach and intestines where nutrients go into the blood.** The smell of food triggers saliva to be produced. The digestive system begins with the mouth and teeth where food is ingested and chewed. Saliva is mixed with the food which helps to break it up. When the food is small enough to be swallowed, it is pushed down the oesophagus by muscles to the stomach. In the stomach, food is mixed further. The mixed food is then sent to the small intestine which absorbs nutrients from the food. Any leftover broken down food then moves on to the large intestine. The food minus the nutrients arrives in the rectum where muscles turn it into faeces. It is stored here until it is pushed out by the anus. This is called excretion.



**To understand that bloody carries nutrients around the body.**

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**To understand that nutrients produced by plants move to primary consumers then to secondary consumers through food chains.**

**Assessment for learning**  
Recapping prior knowledge- beginning of unit- what do children already know?  
Beginning of each lesson- focus on recall of previous learning (quick quizzes)

**Activity ideas**  
\* Research the function of the parts of the digestive system.  
• Create a model of the digestive system using household objects.  
• Explore eating different types of food to identify which teeth are being used for cutting, tearing and grinding (chewing).  
• Classify animals as herbivores, carnivores or omnivores according to the type of teeth they have in their skulls.  
• Use food chains to identify producers, predators and prey within a habitat.  
• Use secondary sources to identify animals in a habitat and find out what they eat.