

Year 4 – Human Nutrition (Animals Including Humans)											
Links made with other subjects	English – writing explanation texts										
The BIG Question	What do our bodies do with the food we eat?										
The BIG Outcome	Write an explanation text or a diary exploring the journey of food as it goes through the body										
Science objectives (link to NC)	-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										
Prior knowledge What prior knowledge is needed for children to be successful in this unit?	<i>Children already know:</i> EYFS – Understanding the world - Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes. Yr 1 –Animals Including Humans (Types and Parts of Animals) Yr 2 - Animals Including Humans (Feeding & Exercise and Living Things) Yr 3 - Animals Including Humans (Movement and Feeding)										
Future learning Consider the conceptual knowledge within a subject that pupils need for future learning not just the recall of facts but the importance of concepts	This unit gives prior knowledge to: Yr 5 - Animals Including Humans (Life Cycles) Yr 6 - Animals Including Humans (Our Bodies and Evolution and Inheritance )										
Science strands	<div>Related Enquiry Questions</div> <table><tr><td><b>Classifying</b></td></tr><tr><td>-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.</td></tr><tr><td><b>Observing over time</b></td></tr><tr><td>Not relevant</td></tr><tr><td><b>Pattern Seeking</b></td></tr><tr><td>Not relevant</td></tr><tr><td><b>Comparative testing</b></td></tr><tr><td>Not relevant</td></tr><tr><td><b>Researching</b></td></tr><tr><td>- 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</td></tr></table>	<b>Classifying</b>	-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.	<b>Observing over time</b>	Not relevant	<b>Pattern Seeking</b>	Not relevant	<b>Comparative testing</b>	Not relevant	<b>Researching</b>	- 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
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Vocabulary/ Glossary	Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain										
Knowledge (see italics for knowledge to remember)	The knowledge that children will learn and remember:  <div><div>1.</div><div><i>Food enters the body through the mouth. Digestion starts when the teeth start to break the food down.</i></div></div> <div><div>2.</div><div><i>Saliva is added and the tongue rolls the food into a ball.</i></div></div>										

## Science Scheme of Work

	<ol style="list-style-type: none"> <li><i>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.</i></li> <li><i>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.</i></li> <li><i>The rest of the food then passes into the large intestine. Here the water is removed for use elsewhere in the body.</i></li> <li><i>What is left is then stored in the rectum until it leaves the body through the anus when you go to the toilet.</i></li> <li><i>Humans have four types of teeth: incisors for cutting; canines for tearing; and molars and premolars for grinding (chewing).</i></li> <li><i>Living things can be classified as producers, predators and prey according to their place in the food chain.</i></li> </ol>
<b>SEND expectations</b>	<ol style="list-style-type: none"> <li><i>Food enters the body through the mouth. Digestion starts when the teeth start to break the food down.</i></li> <li><i>The food is swallowed and passes down the oesophagus to the stomach.</i></li> <li><i>The food passes into the small intestine.</i></li> <li><i>The rest of the food then passes into the large intestine.</i></li> <li><i>What is left is then stored in the rectum until it leaves the body through the anus when you go to the toilet.</i></li> <li><i>Humans have four types of teeth: incisors for cutting; canines for tearing; and molars and premolars for grinding (chewing).</i></li> <li><i>Living things can be classified as producers, predators and prey according to their place in the food chain.</i></li> </ol>
<b>Common misconceptions</b>	<p>Some children may think:</p> <ul style="list-style-type: none"> <li>- arrows in a food chains mean 'eats'</li> <li>- the death of one of the parts of a food chain or web has no, or limited, consequences on the rest of the chain</li> <li>-there is always plenty of food for wild animals</li> <li>- your stomach is where your belly button is</li> <li>- food is digested only in the stomach</li> <li>-when you have a meal, your food goes down one tube and your drink down another</li> <li>- the food you eat becomes "poo" and the drink becomes "wee".</li> </ul>