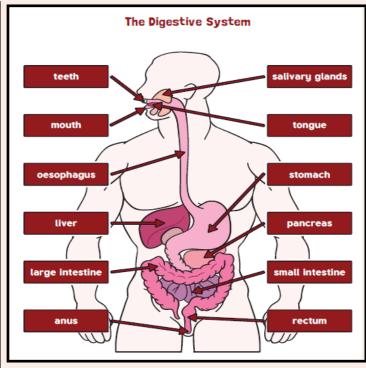


Year 4 - Animals Including Humans

Digestion is important for breaking down food intro nutrients, which the body uses for energy, growth and cell repair. Food and drink must be changed into much smaller pieces of nutrients before the blood absorbs them and carries them to cells through the body. There are many organs in the digestive system, each with a particular job that is crucial for the digestive system to function properly and effectively.

Key Vocabulary		
Word	Definition	
absorb	to soak up liquid	
digest	to break food down into smaller pieces so it can be used by the body	
egest	to get rid of waste material (food)	
produce	to make	
acid	a sour liquid that causes a chemical change	
bolus	a ball of chewed food	
contraction	tightening of the muscle	
enzyme	a protein that speeds up digestion by breaking down food	
function	the job it does	
stool	another word for faeces or poo!	
chemical di- gestions	to break down food using enzymes and acid	
mechanical digestion	to break down food using movement	



Fascinating Facts

Our salivary glands produce 1.5 litres of saliva a day!

It takes 7 seconds for food to travel to the stomach once you have swallowed it.

Food will reach your stomach even if you eat upside-down!

Our stomach can stretch. An adult's stomach can hold approximately 1.5 litres of food and drink.

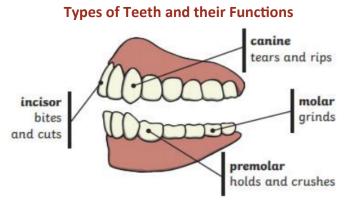
Digestive Organs and their Functions		
Word	Definition	
mouth	where food enters the digestive system	
teeth	tear, rip and chew food	
salivary glands	produce saliva	
tongue	moves the food into a bolus and pushes it to the oesophagus	
oesophagus	a muscular tube which uses contractions to move the bolus from mouth to stomach	
stomach	mixes acid and enzymes to turn food into a paste	
liver	produces bile to break down fat	
pancreas	produces enzymes which break down fats, proteins and carbohydrates	
small intestine	absorbs nutrients from the food	
large	helps absorb water from the food	
intestine		
rectum	hold the stool until you go to the toilet	
anus	where the stool is released	



Year 4 - Digestive System and Teeth

The teeth are an important part of the digestive system and every tooth has a special job to do. The teeth are responsible for crushing and grinding the food we eat into smaller pieces so the food can move along in the digestive process. To ensure we prevent tooth decay and cavities, we need to think about our diet and food choices we make to keep our teeth clean and healthy.

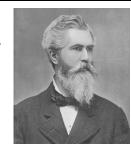
Key Vocabulary		
Word	Definition	
incisors	a type of tooth at the front of the mouth used for biting and cutting	
canines	next to the incisors, they are sharp for tearing and ripping	
premolars	flat, wide teeth towards the back of the mouth used for chewing, holding and crushing	
molars	tooth type at the back of the mouth used for grinding and crushing	
wisdom	a third molar that we no longer really need	
enamel	hard, white outer layer of tooth	
root	anchors the permanent tooth into the gum	
tooth decay	damage to the tooth	
herbivore	animal that only eats plants	
omnivore	animal that eats both meat and plants	
carnivore	animal that only eats meat	



The Structure of a Tooth Enamel Dentine Gum Bone Pulp Cementum **Blood** vessels and nerves

Scientist Spotlight

Washington Sheffield was the inventor of toothpaste as we know it today. Dr Sheffield was a skilful American dental surgeon, who was born on the 23rd of April 1827.



Dr Sheffield created his own tooth powder to use on his patients. In 1875, he developed a ready-made 'Tooth Crème' with mint flavourings and, thanks to his son, was the first to package it in a tube.

Dr Sheffield began to make and sell his tooth crème to his patients. Due to the popularity of his product, Dr Sheffield and his son built a laboratory and factory behind his house!

Key Facts

Tooth decay is damage to your tooth enamel. It can be a problem for people of all ages.

Plaque, a sticky film of bacteria, constantly forms on your teeth. When you eat or drink foods containing sugars, the bacteria in plaque produce acids attack the tooth enamel.



Toothache and bad breath are symptoms of tooth decay. It can lead to problems such as holes in the teeth and gum disease, which can result in the removal of teeth.