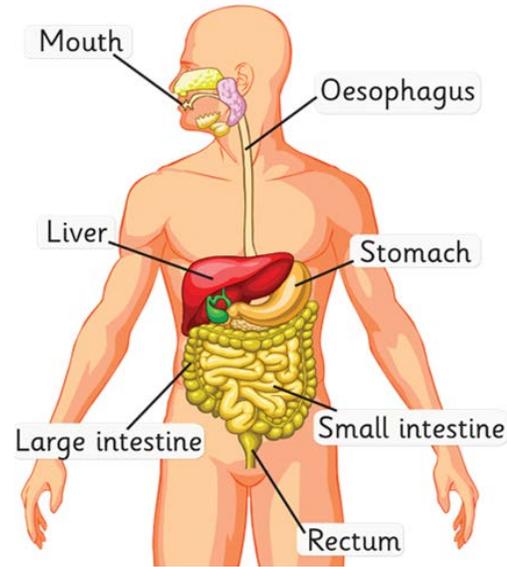


Year 4 Knowledge Organiser – How does the digestive system work and how does the NHS help us?

Key Vocabulary

Digestion	The process by which our bodies extract nutrients from food.
Teeth	Incisor- 8 front teeth which slice and cut food. (4 on top and 4 on bottom) Canine- four sharp teeth which rip and tearing food (2 on top and 2 of bottom) Molar – bigger and wider to hold, crush and grind food.
Plaque	Soft, sticky film containing bacteria that builds up on teeth and causes tooth decay.
Producer	Organisms that make their own food or energy e.g. plants, sun
Consumer	Organisms that eat other organisms as their food or energy e.g. humans.
Prey	The animal that is eaten by their predator.
Predator	The animal that hunts and eats another animal (prey).
Vertebrate	An animal with a backbone or spine.
Invertebrate	An animal without a backbone or spine.
Sound	Vibrations that travel through the air or another medium and can be heard when they reach a person/animal's ear.

Digestive System



- Food enters the mouth and is chewed by the teeth whilst your tongue helps to rotate and move the food.
- Salivary glands release a slimy liquid (saliva) which helps to break down the food.
- Afterwards it travels through the oesophagus and into the stomach. This stretchy muscular bag releases acid and breaks the food down further, killing harmful bacteria.
- The sloppy mixture (also known as chyme) is then transported into the small intestine. Nutrients and goodness from the food is absorbed through the lining and into the blood.
- The leftovers are moved into the large intestine which soaks up the water, salts and minerals before compacting the food.
- Finally, the remaining waste (faeces) travels to the rectum for storage before being passed through the anus as poo.

Medical Timeline

<u>450 AD</u>	Hippocrates was born.. Revolutionised Medicine by seeing it as Science not superstition.
<u>750 AD</u>	'The Dark Ages'. After the fall of the Roman Empire, people believed in superstition again.
<u>1348</u>	Europe was hit by 'The Black Death', an outbreak of the plague which killed 75% of Europe over 20 years.
<u>1590</u>	Zacharias Jannssen invented the microscope.
<u>1698</u>	William Harvey discovered that blood is pumped round the body by the heart.
<u>1818</u>	James Blundell performs the first blood transfusion.
<u>1846</u>	William Morton uses anaesthetic for the first time to remove a tooth.
<u>1867</u>	Joseph Lister discovered the importance of hygiene in operating rooms.
<u>1879</u>	Discovered the first vaccine for Cholera.
<u>1922</u>	Insulin first used to treat Diabetes.
<u>1928</u>	Sr Alexander Fleming discovered Penicillin.
<u>1948</u>	NHS was set up to provide free healthcare in the UK.
<u>1953</u>	James Watson and Francis Crick discovered DNA.
<u>1978</u>	First test tube baby was born.
<u>1996</u>	Dolly the sheep was the first animal to be cloned.
<u>2008</u>	Bird Flu and Swine Flu spread across the world.
<u>2016</u>	Scientists found a device to help defeat cancer.
<u>2020</u>	Coronavirus spread across the world bringing it to a complete standstill.