

# Science Knowledge Organiser

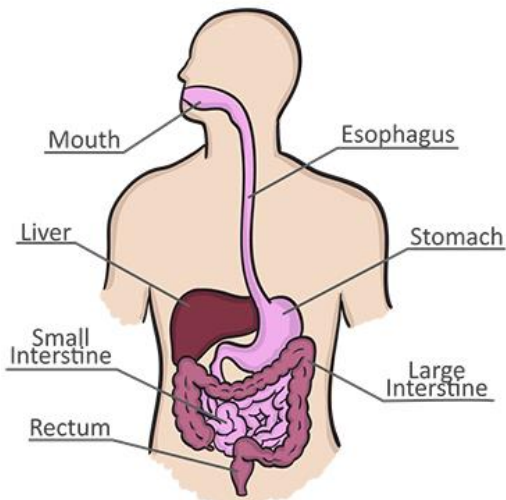
## Year: 4 Term: 4 Topic: The Digestive System



### Prior knowledge/key knowledge

Year 3	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.
Digestive system	About parts of the digestive system and to describe the simple functions of the basic parts of the digestive system in humans.
Teeth	To identify the different types of teeth in humans and their simple functions.
Oral Health	How to look after teeth and the impacts of sugar.
Teeth types, purpose,	Why animals, including humans, have different types of teeth.
Food chains	Construct and interpret a variety of food chains, identifying producers, predators and prey.
Diet	How healthy and unhealthy foods impact on the body.

### Organs of the Digestive System



### Vocabulary

Abdomen	The lower part of an animal or human's body where the stomach and intestines are located.
Bile	A liquid produced in the liver that helps the body to digest fat.
Digestion	The process that happens when food is broken down inside the body after being eaten.
Enzyme	A chemical substance in the body that causes changes to happen.
Faeces	The solid waste passed out of a human or animal after digestion.
Hygiene	The act of keeping clean to prevent illness and the spread of disease.
Large intestine	The lower part of the bowels that removes water from food during digestion.
Liver	Produces bile which helps to absorb fats. Bile is sent to the gallbladder to be stored.
Oesophagus	A tube that transports food from the mouth to the stomach.
Rectum	The end of the large intestine that solid waste passes through before leaving the body.
Small intestine	This part of the bowel removes nutrients from the food. They pass any leftover broken down food to the large intestine.
Stomach	An organ that produces acid and enzymes which breaks the food down further. The muscles in the stomach also mix the food.

### Key skills

Investigative focus	Research the digestive system. How do we digest our food? Demonstrate the digestive process. Make and label a 3D version of the digestive system.
Key skill	Identify the different types of teeth and their functions and know how to look after our teeth.
Key skill	Construct and interpret a variety of food chains, identifying producers, predators and prey.

### Big Questions/Challenging Perceptions



Justify why a healthy diet leads to a healthy poo. Discuss differences and similarities of a healthy/unhealthy poo, give reasons for this.

Select a set of teeth. Assess if they belong to a carnivore, herbivore or omnivore. Justify your answers.

Should children be allowed to eat sweets? Debate the arguments for and against and justify your answers and recommendations.

