

Preston Primary School Knowledge Organiser

Topic: Science- Animals including humans

Term: Spring 2

Year: Unit 3

Duration: 6 Weeks

The Powerful Knowledge we will take away from this Learning Enquiry (what children will be learning):

We will develop our previous learning about animals, and humans and examine the function of the digestive system in humans.

We will recap our previous learning about how humans and animals have different nutritional needs to keep them healthy and their bodies functioning. We will complete an experiment looking into the human digestive system.



Our digestive system comprises of many parts which each play a role in the digestive process.



Additionally, we will explore how our different types of teeth help with the digestive process. We will learn the names of the different types of teeth and explore the varying function of each type of tooth.



The digestive system digests our food and enables our bodies to use the energy stored within food. We then excrete the waste products as faeces or urine. We will demonstrate this process practically and visually through an experiment that demonstrates how food that is eaten passes from the mouth to the point of excretion.

Our Key Vocabulary:

Word	Meaning
Nutrition	There are lots of different kinds of vitamins and minerals and nutrition is the term that describes what is in our food.
Living things	Animals, including humans, that breathe oxygen and cannot make their own food or water.
Excretion	The elimination by an organism of waste products.
Digest	To break down the foods eaten so that the nutrients contained within the foods can be absorbed and used by the body.
Digestive system	The parts of the body that work together to extract energy from food and excrete waste products.
Teeth	There are 4 types of teeth: canines, incisors, pre-molars, and molars. Each has a different function: to tear, to cut, to crush and to grind the food we eat.

Website links:

What is the digestive system? - BBC Bitesize

<https://www.bbc.co.uk/bitesize/topics/z27kng8/articles/z9wk7p3>

What happens to food in your mouth? - BBC Bitesize

<https://www.bbc.co.uk/bitesize/topics/z27kng8/articles/z2rx82>

What happens in your stomach? - BBC Bitesize

<https://www.bbc.co.uk/bitesize/topics/z27kng8/articles/zg2g7p3>

What happens in your intestines? - BBC Bitesize

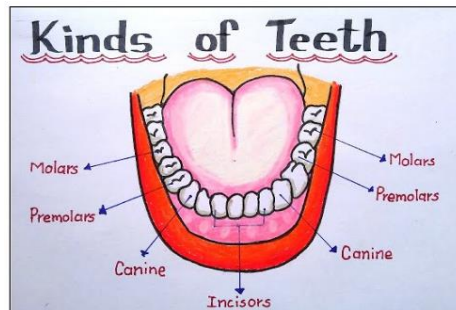
<https://www.bbc.co.uk/bitesize/topics/zv9qhyc/articles/zdkfvk7>

What I already know:

In Unit 2, children learned that humans and animals have basic needs for survival: food, water, and air. They learnt that humans and animals reproduce.

In Unit 3, children have studied the different nutritional requirements of humans and know that we need to eat a healthy and balanced diet. They have learnt about the function of the skeleton and are able to identify the role played by major bones e.g., the rib cage protects our lungs from damage. Children have discussed carnivores, herbivores and omnivores and the types of teeth each of these groups have depending on their diets.

There are four types of permanent teeth in humans:

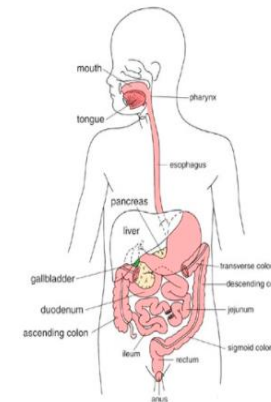


Each type of tooth has its own role to play in how we eat our food, and the digestive process.

How does the digestive process work?

Digestion involves:

- ▶ The mixing of food.
- ▶ The movement of food through the digestive tract.
- ▶ A chemical breakdown of large molecules of food into smaller molecules.



Digestion begins in the mouth, where food and drink are taken in and is completed in the small intestine.