



Y4 Science Knowledge Organiser—Teeth & The Digestive System

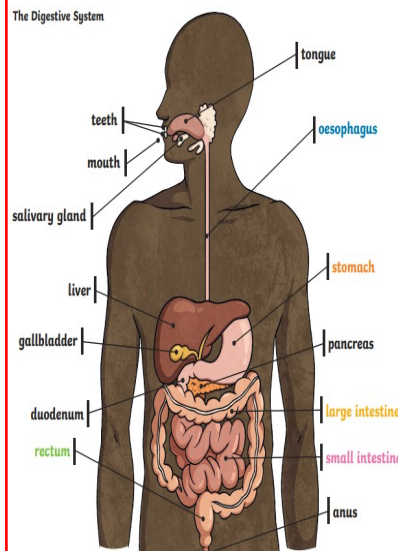


Key Knowledge - Part 1

Learn these key facts—key points in red

The Digestive System

- The smell of food triggers **saliva** to be produced.
- The digestive system begins with the mouth and teeth where food is chewed.
- Saliva** is mixed with the food which helps to break it up.
- When the food is small enough to be swallowed, it is pushed down the **oesophagus** by muscles to the **stomach**.
- In the **stomach**, food is mixed further.
- The mixed food is then sent to the small **intestine** which absorbs nutrients from the food.
- Any leftover broken down food then moves on to the large **intestine**.
- The food minus the nutrients arrives in the **rectum** where muscles turn it into **faeces**. It is stored here until it is pushed out by the **anus**. This is called **excretion**.



Terrific Teeth

What is the role of our teeth?

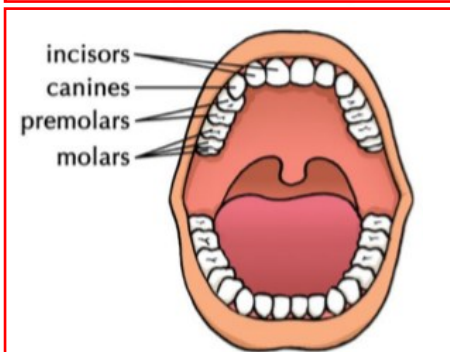
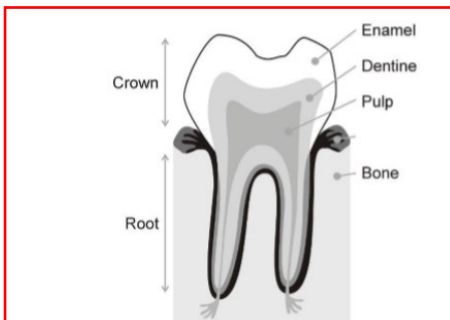
- Teeth are used for cutting and chewing food.
- They start the digestive process which gives us the energy we need to live.

What are the different names and functions of our teeth?

- Canines** are pointed for tearing and ripping food - these are usually used when chewing meat.
- Incisors** are shovel shaped and help bite lumps out of and cut food.
- Premolars and **molars** are flat and they grind and crush food.

How do we look after them?

- Humans look after their teeth by brushing and flossing and ensuring that they do not eat foods high in sugar.
- Not looking after teeth can lead to an increase in plaque and tooth **decay**.



Key Vocabulary

Understand these key words

Word

Definition

canine

pointed teeth near the front of the mouth in humans and some animals.

carnivore

an animal that eats meat.

decay

natural process of slowly losing health or strength.

digestion

the breaking down of food that is eaten.

enamel

The hard white substance that forms the outer layer of the tooth.

excretion

Process of getting rid of faeces, urine or sweat through the body.

faeces

the solid waste substance that people and animals get rid of from their body by passing it through the anus.

food chain

the order in which living things depend on each other for food.

incisor

the teeth at the front of your mouth which you use for biting into food.

intestines

the tubes in your body through which food passes when it has left your stomach.

molar

the large, flat teeth towards the back of your mouth that you use for chewing food.

nutrition

the process of taking food into the body and absorbing the nutrients in those foods.

oesophagus

the part of your body that carries the food from the throat to the stomach.

omnivore

person or animal that eats both meat and plants.

predator

an animal that hunts, catches and eats other living things.

prey

An animal that is hunted, caught and eaten by other living things.

producer

a plant that produces its own food.

rectum

part of the digestive system where stools are stored before leaving the body through the anus.

saliva

the watery liquid that forms in your mouth and helps you to chew and digest food.

stomach

the organ inside your body where food is digested before it moves into the intestines.



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Key Knowledge—Part 2

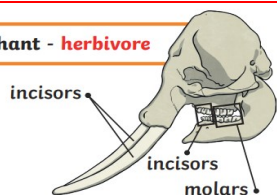
Learn these key facts—key points in red

Teeth in animals other than humans

The teeth of an animal are designed to eat different foods depending on the diet of the animal. Examples of the types of teeth of a **herbivore**, a **carnivore** and an **omnivore** are below:

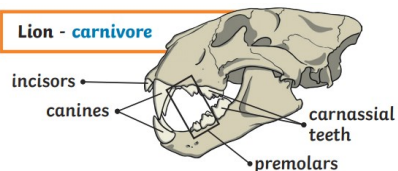
Herbivore

Elephant - **herbivore**



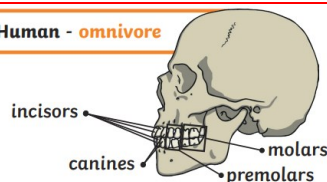
Carnivore

Lion - **carnivore**

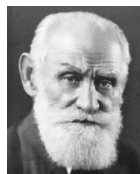


Omnivore

Human - **omnivore**



Focus Scientists — Ivan Pavlov

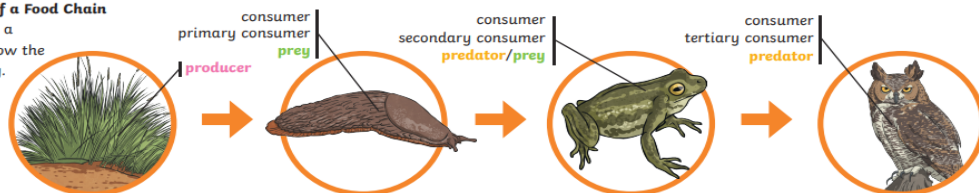


Ivan Pavlov (1849-1936)
Ivan Pavlov worked to unveil the secrets of the digestive system, but he also studied what signals triggered phenomena, such as the secretion of saliva through his famous Pavlov's dog experiments.

Food Chains

Food chains are the connections between **producers**, **prey** and **predators**. All the living things in a food chain rely on each other. A food chain describes how different organisms eat each other, starting out with a plant and ending with an animal.

An Example of a Food Chain
The arrows in a food chain show the flow of energy.



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faeces	the solid waste substance that people and animals get rid of from their body by passing it through the anus
food chain	the order in which living things depend on each other for food
incisor	the teeth at the front of your mouth which you use for biting into food
intestines	the tubes in your body through which food passes when it has left your stomach
molar	the large, flat teeth towards the back of your mouth that you use for chewing food
nutrition	the process of taking food into the body and absorbing the nutrients in those foods
oesophagus	the part of your body that carries the food from the throat to the stomach
omnivore	an animal that eats plants and animals
predator	an animal that hunts, catches and eats other living things
prey	An animal that is hunted, caught and eaten by other living things
producer	a plant that produces its own food
rectum	part of the digestive system where stools are stored before leaving the body through the anus.
saliva	the watery liquid that forms in your mouth and helps you to chew and digest food
stomach	the organ inside your body where food is digested before it moves into the intestines