

# Y4 What happens when we eat?

Power of Reading link texts

Varjak Paw

## **National Curriculum PoS - Science:**

- describe the simple functions of the basic parts of the digestive system in humans
- identify the different types of teeth in humans and their simple functions
- construct and interpret a variety of food chains, identifying producers, predators and prey.

## **Procedural knowledge:**

### **Planning**

Can they explore different ways to test an idea, choose the best way, and give reasons?

- Can they vary one factor whilst keeping the others the same in an experiment? Can they explain why they do this?
- Can they plan and carry out an investigation by controlling variables fairly and accurately?
- Can they make a prediction with reasons?
- Can they use information to help make a prediction?
- Can they use test results to make further predictions and set up further comparative tests?
- Can they explain, in simple terms, a scientific idea and what evidence supports it?

### **Doing**

Can they explain why they have chosen specific equipment? (incl ICT based equipment)

- Can they decide which units of measurement they need to use?
- Can they explain why a measurement needs to be repeated?
- Can they record their measurements in different ways? (incl bar charts, tables and line graphs)
- Can they take measurements using a range of scientific equipment with increasing accuracy and precision

### **Evaluating**

Can they find a pattern from their data and explain what it shows?

- Can they use a graph to answer scientific questions?
- Can they link what they have found out to other science?
- Can they suggest how to improve their work and say why they think this?
- Can they record more complex data and results using scientific diagrams, classification keys, tables, bar charts, line graphs and models?
- Can they report findings from investigations through written explanations and conclusions?
- Can they report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations?

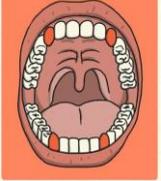
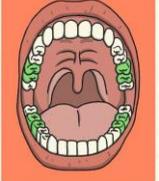
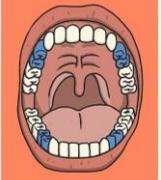
Key Facts | Key Images | Key Vocabulary

**Food chains**

Within a food chain, some living things create the energy (**producers**) and some use the energy (**consumers**).

- **Plants are producers** of energy, as they make their own food
- There are four different types of consumers in the animal kingdom. A **carnivore** is an animal that only eats other animals. An **herbivore** is an animal that only eats plants. An **omnivore** is an animal that eats both plants and animals. A **scavenger** is an animal that eats dead animals

**Teeth**

|                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Canines</b></p> <p><b>How many?</b><br/>Humans have 4 canine teeth, one in each quarter of the mouth, on either side of the incisors.</p> <p><b>Shape</b><br/>Canines are pointy.</p> <p><b>Function:</b><br/>Used for tearing and ripping food.</p>       | <p><b>Molars</b></p> <p><b>How many?</b><br/>Humans have 8 molars, two in each quarter of the mouth. They are at the back of the mouth behind the premolars.</p> <p><b>Shape</b><br/>Large and flat</p> <p><b>Function:</b><br/>Grinding food</p>    |
| <p><b>Premolars</b></p> <p><b>How many?</b><br/>Humans have 8 premolars, two in each quarter of the mouth. They are between the canine tooth and the molars.</p> <p><b>Shape</b><br/>Small and flat</p> <p><b>Function:</b><br/>Holding and crushing food.</p>  | <p><b>Incisors</b></p> <p><b>How many?</b><br/>Humans have 8 incisors altogether; 4 in the upper jaw and 4 in the lower jaw.</p> <p><b>Shape</b><br/>Incisors are shovel-shaped.</p> <p><b>Function:</b><br/>Used for biting and cutting food.</p>  |

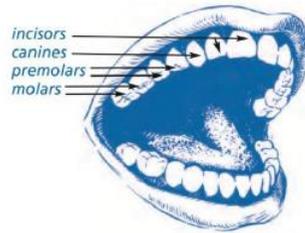
**Digestion**

The digestive system breaks down large molecules of insoluble food into smaller molecules which can be absorbed into the blood.

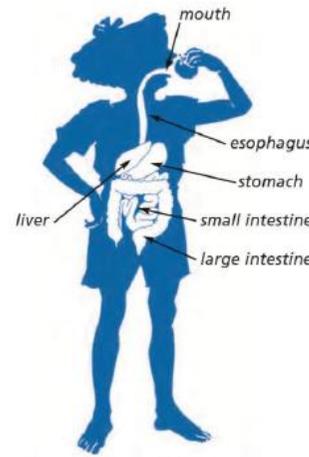
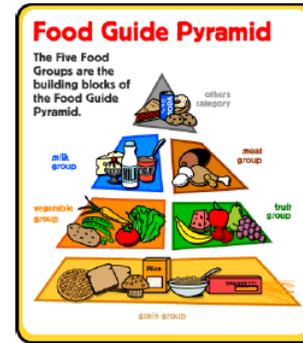
4 different types of digestion:

- 1) Mechanical Digestion
- 2) Chemical congestion by enzymes
- 3) Chemical congestion by bile
- 4) Gut bacteria

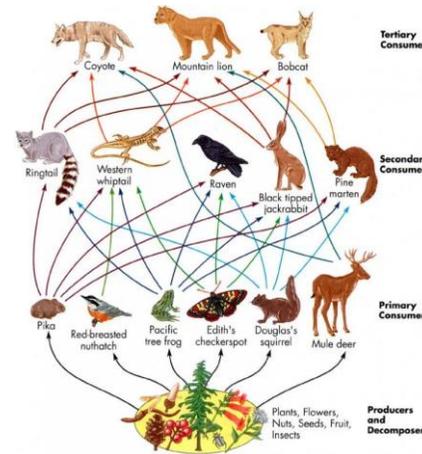
**Key Images**



Wash your hands with soap and water, then look in a mirror and try to point to and identify your different teeth.



These are some of the major organs in your digestive system.



**Key Vocabulary**

- Digestion**  
The process by which food is converted into substances that can be absorbed into the body.
- Salivary glands**  
Any of three pairs of glands in the mouth and digestive system that secrete saliva for digestion.
- Oesophagus**  
The tube that leads from the mouth through the throat to the stomach.
- Stomach**  
The pouch into which food passes from the oesophagus for mixing and digestion before passing to the small intestine.
- Small intestine**  
The chief site of the digestion of food into small molecules which are absorbed into the body.
- Large intestine**  
Takes water and some minerals from leftover food material and creates solid waste.
- Vitamins**  
Substances necessary for the healthy functioning of our bodies.

**Journey towards the final outcome: to be decided by staff**

