



Year 4: Animals Including Humans



Kindness Enjoyment Achievement

Key Concepts:

Food enters the body through the mouth. Digestion starts when the teeth start to break the food down. Saliva is added and the tongue rolls the food into a ball. The food is swallowed and passes down the oesophagus to the stomach. Here the food is broken down further by being churned around and other chemicals are added. The food passes into the small intestine. Here nutrients are removed from the food and leave the digestive system to be used elsewhere in the body, carried by the blood. The rest of the food then passes into the large intestine. Here the water is removed for use elsewhere in the body. What is left is then stored in the rectum until it leaves the body through the anus when you go to the toilet.

Types of Enquiry:

Sorting and classifying:

Name parts of digestive system.

Identify and label different types of teeth- on diagrams and in own mouth.

Classify animals by the kinds of teeth they have in their mouths.

Fair/ comparative test:

What happens to egg shell when left in different liquids?

Which is the best toothpaste?

Use of secondary sources:

Teacher demonstration of digestive system

Animation of digestive system;

Research and explain function of each part of the digestive system.

Listen to expert: how to look after teeth (dentist visit).

Change over time:

What happens to egg shell when left in different liquids?

Vocabulary:

Digestive system

Digestion

Mouth, saliva

Teeth- molar, premolar, incisor, canine

Oesophagus

stomach,

small intestine

large intestine

rectum

anus

Nutrients

herbivore, carnivore, omnivore

producer, predator, prey, food chain

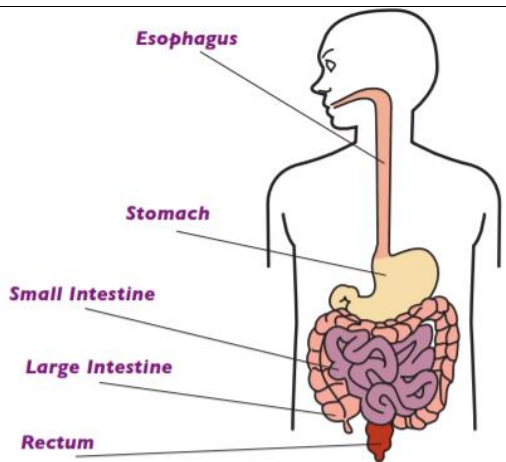
acid



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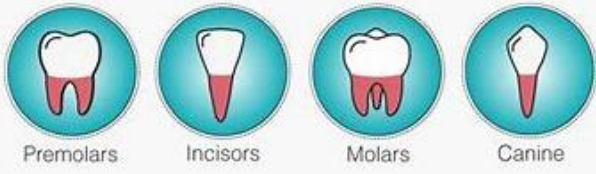
 <p>NB: Oesophagus spelled incorrectly in diagram above!</p> <p>Humans have four types of teeth - incisors for cutting, canines for tearing, molars and premolars for grinding (chewing).</p>	<p><u>Pattern seeking</u> How does the amount of sugar in a drink decide the amount of decay on an egg shell?</p>	
	<p><u>Working scientifically skills:</u></p> <p><u>Questioning:</u> How could the egg shell experiment be adapted to ask another question? - child led investigation.</p> <p><u>Observing:</u> Use magnifying glasses to make close observations. Worded comparisons between the eggshells</p> <p>How teeth of different types are similar/ different from each other.</p> <p><u>Identify and classify:</u> Identify and classify teeth; Identify producers, consumers, predators and prey in food chains. (Recap from Y2)</p> <p><u>Testing:</u> Set up fair test under guidance of teacher; set up a similar (but different) test independently.</p> <p><u>Predicting:</u></p> <p><u>Recording:</u></p>	<p><u>How it fits in with the rest of the curriculum:</u></p> <p>Y2: Basic needs of animals: food, water, air. Describe the importance for humans of eating the right types and amounts of different types of food (dairy, fruit & veg, meat/ protein, carbohydrates) & need for hygiene.</p> <p>Y3: healthy diet, nutrients in food: protein, vitamins and minerals, fats, fibre, carbohydrates- food contains different combinations of many of these nutrients. Plants can make their own food: animals can't. Skeleton and muscles for protection, support and movement; voluntary and involuntary muscles.</p> <p>Y5: Know the life cycle of different living things (mammal, bird, amphibian...) Know the process of reproduction in plants and animals.</p>



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Living things can be classified as producers, predators and prey according to their place in the food chain.
Food chains always begin with plants (producers) and end with predators.

Labelled diagrams, written work, display, oral answers, story board of digestive system.

Communicating:

Add facts to class display about digestion system
Describe journey through the digestive system from the point of view of a bit of food.

Concluding:

Draw conclusion from simple descriptions of what happened to egg shells.

Y6: identify and name main parts of the human circulatory system, describe the functions of the heart, blood vessels and blood.

Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.

Describe the ways in which nutrients and water are transported within animals.