

Year Group	4
Term	Autumn 1
Subject	Science

Topic	Humans and other animals
Curriculum Intent	To determine an animal's diet by looking at their teeth and to explain what happens when food travels along the digestive system.

Key Vocabulary	Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, predator, prey, food chain
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Scientific Skills	• To ask relevant questions • To make systematic and careful observations • To present data in a variety of ways to help in answering questions • To record findings using simple scientific language, drawings and labelled diagrams • To identify differences, similarities or changes related to simple scientific ideas and processes • To use straightforward scientific evidence to answer questions or to support their findings • To use relevant simple scientific language to and communicate their findings
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Scientific Knowledge	• To describe the simple functions of the basic parts of the digestive system in humans. • To identify the different types of teeth in humans and their simple functions. • To construct and interpret a variety of food chains, identifying producers, predators and prey.
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Week	Learning Objective	Activities	Outcome
1	Identify the main organs of the digestive system.	Using a range of information sources, identify and label the main organs of the digestive system or create a model of digestive system using different objects.	To know the main organs of the human digestive system.
2	Describe the functions of the main organs of the digestive system	Research the function of the parts of the digestive system. Digestive system practical demonstration. Activity: Describe the functions of the organs of the digestive system.	To be able to explain what happens to food as it travels along the digestive system.
3	Identify different types of teeth and their simple functions.	Look at pictures/diagrams of different teeth. Identify similarities and differences. Link shape of teeth to their function. Activity: Explore the types of teeth carnivores, omnivores and herbivores have and apply this to their knowledge of what these types of animals eat.	To be able to explain the function of different teeth.
4	Investigate the effects of different liquids on the teeth	Design and conduct a fair test and evaluate results. What does this tell us about looking after our teeth?	Observe and record the effect of each liquid Draw conclusions from the investigation Explain how to care for your teeth
5	To understand food chains.	The children will discover what a food chain is and that the arrow shows energy flow within an ecosystem. Explore the key terms within a food chain - producer, consumer, prey and predator.	Identify the key parts of a food chain Create a food chain within a chosen ecosystem Explain why it is important to keep food chains balanced

6	To interpret and construct food webs.	Use secondary sources to identify animals in a food web and find out what they eat. The children will discover that a food web is a way of showing the energy flow in an ecosystem in a more complex way. Discuss examples of ecosystems – e.g. coral reefs, deserts, tundras, forests, rainforests, savannas and marine ecosystems Discuss interdependence between living things in ecosystems and highlight some threats, such as climate change, over hunting/fishing, loss and degradation of habitats, invasive species and pollution. <i>X curricular non fiction guided reading week to recap and support and offer further opportunities to demonstrate understanding</i>	Research living things within a chosen ecosystem Create a food web for a chosen ecosystem Identify threats to living things within their chosen ecosystem
7	End of unit Assessment		