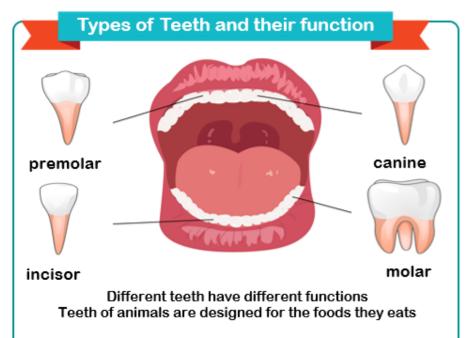
Key Scientific Skills	Year 4 Animals, including humans	Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	
Ask relevant questions and using different types of scientific enquiries to answer them		Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Identify differences, similarities or changes related to simple scientific ideas and processes	
Set up simple practical enquiries, comparative and fair tests			
Make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of			
equipment, including thermometers and data loggers Gather, record, classify and			
present data in a variety of ways to help in answering questions		Use straightforward scientific evidence to answer questions or to support their findings	



- Herbivores (e.g., horses) have little use for canines and mainly use incisors and molars
- Carnivores (e.g., Lion) mainly use canines and incisors, they don't have molars (have premolars – small molars)
- · Omnivores (e.g., humans) use all three

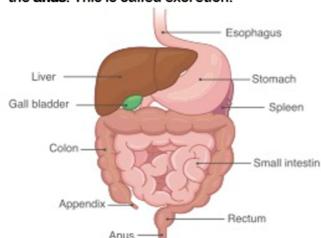
Tooth enamel is the hardest substance in the human body Humans have two sets of teeth; milk teeth and adult teeth

Year 4 Science Autumn 1 Unit

Animals including Humans

The Digestive System

- The digestive system begins with the mouth and teeth where food is ingested and 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 (poo). It is stored here until it is pushed out by the anus. This is called excretion.



Food Webs versus Food Chain

	Rocket Words					
	digestive system	series of organs that break down food				
	oesophagus	tubes running from mouth to stomach				
	saliva	a fluid in the mouth which helps break down food				
	peristalsis	the movement of food through parts of the digestive system				
	incisors	front teeth for cutting food				
	molars	wide, flat teeth for grinding food				
	enamel	very hard layer covering the tooth				
	fluoride	ingredient in toothpaste that helps prevent cavities forming				
	consumer	an animal which gets its food from other living things				
	predator	an animal that gets its food from killing and eating other animals				
	tundra	region found in the Arctic, where the climate is cold and windy				
1	hide	the skin of an animal				

Progression of Knowledge

Unit	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Animals, including humans	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals	Notice that animals, including humans, have offspring which grow into adults Find out about and describe	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement	Describe the simple	VEAR 5 Describe the changes as humans develop to old age	YEAR 6 Identify and name the main parts of the human circulatory system, and 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, including humans

Bird in Bush Primary School Science Knowledge Organiser 2023—2024

Knowledge Organiser adapted from the Developing Experts Science Scheme