

Manor Primary School Knowledge Organiser – Owls



Topic: Animals including Humans

Phase: Lower KS2

Strand: Science (Biology)

What should I already know?

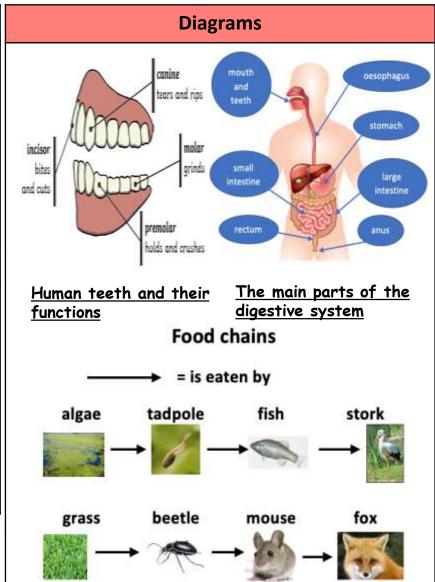
That animals, including humans, have offspring which grow into adults. How to find out about and describe the basic needs of animals, including humans, for survival (water, food and air). How to describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. 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. That humans and some other animals have skeletons and muscles for support, protection and movement. That common animals can be grouped into carnivores, herbivores and omnivores. That simple food chains describe how animals obtain their food.

At the end of the unit I will be able to:

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. Identify the main body parts associated with the digestive system, for example, mouth, tongue, teeth, oesophagus, stomach and small and large intestine and explore questions that help us to understand their special functions. Compare the teeth of carnivores and herbivores and suggesting reasons for differences. Find out what damages teeth and how to look after them.





We are MANOR! As Scientists we will					
Manners	Develop a respect and understanding for the natural world, its people, animals and plants. Share ideas, celebrate good work, value others' contributions, or discussions and debates.				
A spiration	Learn by being challenged in a series of well-designed scientific enquiry and investigation tasks linked to meaningful contexts and develop a knowledge of scientists and careers to broaden our horizons. Be aspirational in developing scientific knowledge and conceptual understanding through biology, chemistry and physics.				
Nurture	To recognise that we live in a wonderful world made up of many different people and living things. We will develop an appreciation and respect for the diverse world and environment in which we live, showing care and compassion for the environment around us.				
Open- Mindedness	We will be open-minded so that we can conduct experiments or observe what is happening in order to see patterns that might emerge or to gain new knowledge. We will use our curiosity and learn to wonder why something behaves a certain way.				
Resilience	Engage confidently with the science curriculum and learn that anything is possible and failure is not something to fear but to learn from. We will develop our scientific enquiry and investigation skills with patience and care, repeating investigations to check the accuracy of results.				



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Animals including Humans Quiz		Key information	Key Knowledge and vocabulary	
1) Can you name two different types of teeth?2) What did Ivan Pavlov research?		Focus Scientist 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. Teeth The teeth of an animal are designed to eat different foods depending on the diet of the animal. The types of teeth differ depending on if the animal is a herbivore, a carnivore and an omnivore. When do our teeth grow? Birth - 20 baby teeth. 7 years - Baby teeth fall out and adult teeth push through. 21years - 32	digest The digestive system oesophagus stomach small intestine large intestine	Break down food so it can be used by the body. The organs in your body involved in the digestion of food. A muscular tube which moves food from the mouth to the stomach. An organ in the digestive system where food is broken down with stomach acid and by being churned around. Part of the intestine where nutrients are absorbed into the body. Part of the intestine where water is absorbed from remaining waste food. Stools are formed
3) What is a food chain?			rectum herbivore carnivore omnivore	in the large intestine. Part of the digestive system where stools are stored before leaving the body through the anus. An animal that eats plants. An animal that feeds on other animals. An animal that eats plants and animals.
4) Where does food enter the human body?		adult teeth. Food chains When part of the food chain is removed, this has an impact on the other parts of the food chain. The number of some species will increase, while	producer consumer predator prey	A plant that produces its own food. Animals that eat plants in a food chain. An animal that hunts and eats other animals. An animal that gets hunted and eaten by another animal.
5) Are humans herbivores, omnivores or carnivores?		the population of others will decrease. This can have a direct impact on the survival of the species. The population of tertiary consumers depends on healthy populations of producers, primary and secondary consumers.	food chain incisors canines premolars molars	Animals eat plants or other animals. The way this happens is shown in a food chain. Teeth used for cutting food. Teeth used to rip and tear food. Teeth used to crush food. Teeth used to grind food.