

Preston Primary School Knowledge Organiser



Topic: Science- Animals including humans

Term: Autumn 1

Year: Unit 3






Duration: 6 Weeks

The Powerful Knowledge we will take away from this Learning Enquiry (what children will be learning):

	<ul style="list-style-type: none"> • I understand that humans and animals need the right types and amount of nutrition. • I can classify animals by what they eat because different animals have different dietary requirements. • I know that humans have different organs with different roles to play in keeping us healthy and our bodies functioning.
	<ul style="list-style-type: none"> • I can set up a practical enquiry. • I can use results to draw simple conclusions. • I can use simple models to describe scientific ideas. • I can use my results to identify when further tests or observations may be needed.

Our Key Vocabulary:

Word	Meaning
Nutrition	There are lots of different kinds of vitamins and minerals and nutrition is the term that describes what is in our food.
Herbivore	Animals that only eat plants.
Omnivore	Animals that eat both plants and other animals.
Carnivore	Animals that only eat other animals.
Skeleton	The system of our bones. The skeleton provides support for the organs of the bodies of animals and humans.
Muscle	These are attached to bones and support the skeleton to move. They are essential for movement.
Diaphragm	The muscle that enables us to breathe. It sits underneath our rib cage.
Fair testing	Setting up an experiment where only one 'control' measure is changed. This means our results are correct.
Classify	To group together based on certain qualities.

Steps in learning	
	<ul style="list-style-type: none"> I know that humans and animals do not produce their own food. I know that humans and animals must eat suitable diets. I know how to classify animals based on their diet.
 	<ul style="list-style-type: none"> I know that the human skeleton is unique and can describe its function. I can name the main human organs and describe their functions. I know how digestion works in humans. I know that human organs each play different roles in making sure the body functions well.
 	<ul style="list-style-type: none"> I can design and conduct a fair test experiment into lung capacity and how exercise impacts this. I know that fair testing is important because it means our results will be genuine and not impacted by any other factors.

What I already know:

Children have a basic understanding of nutrition from their learning in Key Stage One. They know that humans need a variety of different foods to be healthy. They know that exercise plays a vital role in keeping humans healthy. They can identify basic parts of the human body and say which part is associated with which of the five senses. They can identify some common animals as herbivores, omnivores, and carnivores. They have learnt about the habitats in which common animals can be found and may be able to link their habitat to the diet of that animal.



Website links:

<https://www.bbc.co.uk/bitesize/topics/z9339j6>

Here are some games, quizzes and videos to access to help you learn about skeletons and muscles.

[https://www.bbc.co.uk/bitesize/topics/z2ddmp3/articles/zpc](https://www.bbc.co.uk/bitesize/topics/z2ddmp3/articles/zpc<trw)

Watch this video to find out more about fair testing before we design and undertake our own experiment.