

Year 2 Science Curriculum

Working scientifically links Rubric/PCMD opp. Key Vocabulary

Animals Including Humans

What's the big picture?. To recap knowledge and vocabulary from year 1 Animals, including humans - knowledge and retrieval. Children to generate their own questions at the start of the topic *"I know how to ask simple scientific questions"*

Prior Learning

- Identify and name a variety of common animals that are carnivores, herbivores and omnivores. (Y1 - Animals, including humans)
- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 - Animals, including humans)

National Curriculum Principles	Objectives	Knowledge and key Vocabulary	Reading opportunities	Technology
To notice that animals, including animals, have offspring that grow into adults	I know the basic stages in a life cycle for animals including humans	Identify and name ages and stages of humans: baby, toddler, child, teenager, adults, old age . Look at this as a life cycle of humans and compare with a life cycle of chicken, butterfly and frog Complete a double page spread gathering and recording data to help answer questions Investigation - is the oldest child the tallest in the class?	Tadpole's Promise (Jeanne Willis and Tony Ross)	
Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)	I know what animals and humans need to survive	Ask children: What do you think they need to survive? Identify needs of food, water, shelter, air Use the animals identified in year 1 unit and identify the needs - present the results orally or write a guide about how to look after a pet.	Meerkat Mail (Emily Gravett) Once there were giants by Martin Waddell and Penny Dale (human life cycle - humans have offspring which grow into adults)	
Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene	I know why exercise, a balanced diet and good hygiene are important for humans	What is exercise ? Why do we need it? Children to investigate how many star jumps they can do in 1 minute.. repeat each day.. what happens? Balanced diet - teach children what a simple balanced diet is using the eat well plate - carbohydrates, protein, vegetables . Children to classify food using the eat well plate prepare a healthy snack Hygiene - what is hygiene? Identify good and bad habits. Talk through		Use the stopwatch to record the time on iPad.

Year 2 Science Curriculum

Working scientifically links Rubric/PCMD opp. Key Vocabulary

		<p>the importance of hand washing - glitter on hands investigation How do we promote good hygiene in school - learning walks using their observations to answer questions</p>		<p>Use iPads to capture photos on learning walks.</p>
--	--	---	--	---

Famous scientists

Elizabeth Garrett Anderson - First British female doctor

Florence Nightingale - pioneer of modern nursing

Mary Seacole - nurse in Crimean war

Common misconceptions

Some children may think:

- an animal's habitat is like its 'home'
- all animals that live in the sea are fish
- respiration is breathing
- breathing is respiration.

Enquiry ideas

<u>Comparative tests</u>	<u>Identify and classify</u>	<u>Observations over time</u>	<u>Pattern seeking</u>	<u>Research</u>
Do you bananas make us run faster?	Which offspring belong to which animal?	How does a tadpole change over time?	Which age group of children wash their hands the most in a day?	What food do you need in a healthy diet and why?
Is the oldest child in the class the tallest?	How would you group things to show which are living dead I have never been alive?	How much food and drink do I have over a week?		What do you need to do to look after a pet and keep it healthy?