

## Year 5 Science Curriculum

Working scientifically links   Rubric/PCMD opp.   Key Vocabulary

### Animals Including Humans

What's the big picture? Recap knowledge and vocabulary from year 4- knowledge and retrieval. *"I know how to ask simple scientific questions"*

**Prior learning:**

Notice that animals, including humans, have offspring which grow into adults. (Y2 - Animals, including humans)

National Curriculum Principles	Objectives	Knowledge and key Vocabulary	Reading opportunities	Technology
Describe the changes as humans develop to old age	I can create a timeline to indicate the stages of growth in humans	<p>Talk through the 6 stages of human life cycles - <b>foetus, baby, childhood, adolescence, adulthood, old age</b>. Human babies grow over 40 weeks</p> <p><b>Children to research and present different gestation periods - SOLE</b></p> <p>Compare <b>gestation periods</b> of different animals. Elephant - 95 weeks Rabbit - 31 days Mouse - 20 days Cow - 9 months</p> <p><b>Pattern seeking - Is there a relationship between a mammal's size and its gestation period?</b></p> <p>Talk to the children about the changes in <b>puberty</b>.</p> <p>Look - increase in facial and body hair, changes in body shape, growth of sex organs, <b>menstruation and periods</b>, oily skin</p> <p>Smell - increase in sweating Feel - confusion, stress, extreme emotions, <b>hormones</b></p>	<p>The Land of Neverbelieve (Norman Messenger)</p> <p>Mummy Laid an Egg (Babette Cole)</p> <p>Hair in Funny Places (Babette Cole)</p> <p>Giant (Kate Scott)</p> <p>You're Only Old Once! (Dr. Seuss)</p>	

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### Famous scientists

Alexander Fleming - discovered penicillin

Louis Pasteur - discovered vaccination

### Common misconceptions

Some children may think:

- a baby grows in a mother's tummy
- a baby is "made".

### PSHE links

This section needs to be taught alongside PSHE. The new statutory requirements for relationships and health education can be found below:

<https://www.gov.uk/government/publications/relationships-education-relationships-and-sex-education-rse-and-health-education/physical-health-and-mental-wellbeing-primary-and-secondary>

<https://www.pshe-association.org.uk/news/joint-briefing-teaching-about-puberty-key-stage-2>

<https://www.pshe-association.org.uk/curriculum-and-resources/resources/briefing-human-development-and-reproduction>

### Enquiry ideas

<u>Comparative tests</u>	<u>Identify and classify</u>	<u>Observations over time</u>	<u>Pattern seeking</u>	<u>Research</u>
How does age affect the human reaction time?	Can you identify all the stages in the human life-cycle?	How does a bean change as it germinates?	Is there a relationship between a mammal size and it's just gestation period?	What are the differences between the life-cycle of an insect and a mammal?
				Why do people get grey hair when they get older?