

NPA Knowledge Organiser: Year 5 Science - Spring 2



Animals including humans

Key vocabulary	
puberty	The time when your body begins to develop and change as you become an adult.
sexual reproduction	The process where a living thing creates another organism like itself. In humans, a sperm cell from a male fertilises an egg from a female to produce a baby.
menstruation (period)	When a woman has a period, she loses a small amount of blood each month.
sperm	Single cells produced by male animals.
egg	A cell that is produced in the body of female animals.
foetus	An animal or human being in its later stages of development before it is born.
gestation	The length of time a mammal carries her offspring inside her body before giving birth.
life expectancy	The length of time that an animal is normally likely to live.

Mammal	Gestation period (in days)
Cat	63
Chimpanzee	240
Lion	108
Human	266
Rabbit	31
Whale	360
Dog	61

Sarah Fowler

Sarah Fowler (OBE) is a marine biologist. She is the principal scientist of the Save Our Seas Foundation. Her research has identified the global threat to sharks and she shares strategies of how we can protect them.



“An understanding of the natural world and what's in it is a source of not only a great curiosity but great fulfilment.” – David Attenborough



Through a variety of stages we grow and develop from birth through to old age.

pregnant - foetus



baby



toddler



child



teenager



adult



old age



The human life cycle

Puberty

Puberty usually begins between the ages 8-14 and the process can take up to 4 years.

During puberty the bodies of boys and girls begin to change physically.

Boys and girls can experience some mood changes during puberty.

Changes for girls:

- Hair starts to grow on their bodies
- Breasts develop and hips widen
- Periods start

Changes for boys:

- Hair starts to grow on their bodies and faces
- Develop a deeper voice
- Testicles start to produce sperm

By the end of this unit, you will be able to:

- describe the changes as humans develop to old age