

Science Knowledge Organiser



**Topic: Animals, including humans:
Body changes and development**

**Year 5: Summer
Term**

Strand: Biology

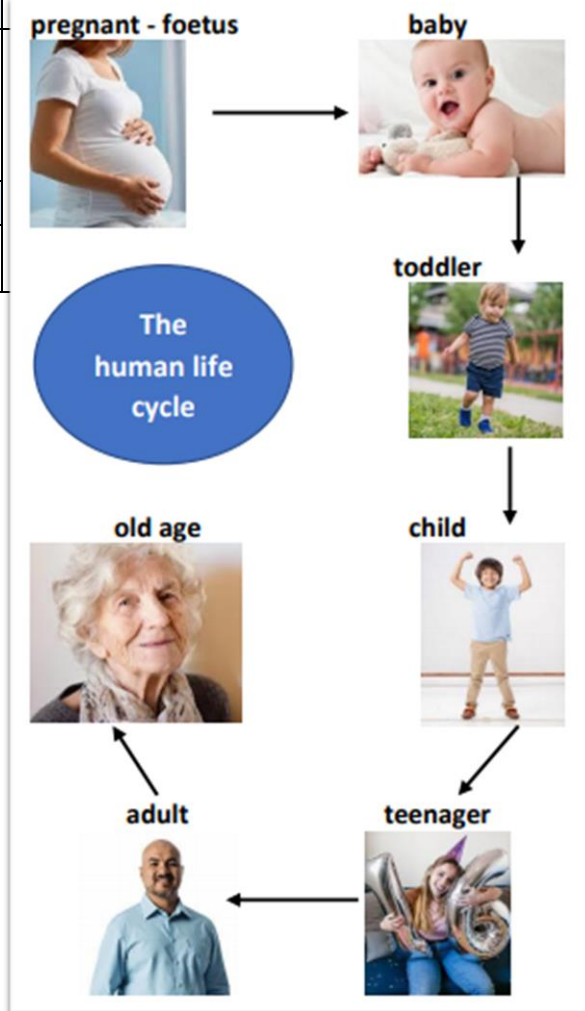
What should I already know?

- That different animals have different life cycles
- That there are different systems in the human body: digestive, muscular, and skeletal.
- That animals, including humans, have offspring which grow to become adults.

What do I need to know?

- That the human body changes as you develop from birth to old age.

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.



As humans, our bodies go through a variety of changes as we grow and develop from birth to old age.

Mammal	Gestation Period in days
Whale	360
Hamster	16
Lion	108
Cat	63
Dog	61
African elephant	650
Human	266
Chimpanzee	240
Giraffe	435
Rabbit	31
Polar Bear	241

Larger mammals usually have a longer gestation period than smaller mammals.

Puberty

- Usually begins between the ages of 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	<ul style="list-style-type: none"> - hair starts to grow on their bodies - breasts develop and hips widen - periods start
Changes for boys	<ul style="list-style-type: none"> - hair starts to grow on their bodies and faces - develop a deeper voice - testicles start to produce sperm