

Knowledge Organiser - Science - Animals including humans (digestion and teeth)- Lower Key Stage 2 (Years 3 and 4) - Autumn 2 2025

Careers connected to Animals Including Humans: field biologist, wildlife biologist, zoologist, midwife, research biologist.



What I already know

- I know the order of the stages of the human life cycle
- I can describe the stages of life from adulthood to old age
- I can match some offspring to their parents
- I have explored the lifecycle of a chicken
- I have explored the lifecycle of a butterfly
- I have explored the lifecycle of a frog

Sticky Learning

Human Gestation Period (9 months*)

The gestation period is when the **foetus** develops inside the **female**. It is different in all **mammals**.



Some animals give birth to 1 baby – the North American Opossum has between 16 and 20!

- Humans - 9 months
- Elephants – 23 months
- Basking shark – 42 months
- North American Opossum - 12 days

Human Young (0-3years*)

Young mammals (babies) are **dependent** - they:

- need milk
 - have poor muscle control
 - need lots of sleep
 - cannot control toileting
- Puppies are born with their eyes closed.

Human babies see light and dark.

Toddlers begin walking between 1-2 years.



Human Adults (21-100 years*)

- Adults are fully grown.
- A dog reaches adulthood at about 2 years.
- Adults reproduce so the whole cycle starts again.



A middle-aged adult



An elderly adult

Human Youngsters (4-11 years*)

Human and other mammal youngsters walk **independently**, eat independently and toilet independently. They begin to learn new skills.



Human Adolescents/Young Adults (12-21 years*)



- Shoulders broaden
- More muscly
- Hair on legs, chest and face
- Penis and scrotum develops
- Voice breaks

During puberty, hormones cause physical, mental and emotional changes. Some are the same for boys and girls:

- Hair on armpits and groin.
- Greasy skin/spots
- Mood swings



- Hips broaden
- Breasts develop
- Menstruation starts (periods)

Core Learning



1. Identify the key stages of a mammal's life cycle



2. Explore the gestation periods of mammals



3. Learn about foetal development



4. Investigate the hand span of different aged children



5. Learn about the changes experienced in puberty



6. Describe the changes humans may experience during old age

***These are approximate ages – every individual is different.**



Knowledge Organiser: Animals Including Humans

Before & After Test



What is the name of the growing human at this stage?

Approximately how long does the **gestation period** last for in humans?

Why are young mammals called **dependents**?

Name one way a dog's life cycle is **different** to a human's.

True or false?

Puberty happens so that when young people are adults, their bodies are able to reproduce.

Label each stage in the human life cycle.













ADOLESCENCE



Name 2 things that happen to **both** boys and girls during puberty:

1. _____

2. _____

Name a change that **only** happens to girls during puberty:

Name a change that **only** happens to boys during puberty:



Unit Rocket Words: Animals Including Humans



Rocket Words



offspring

a child or young animal



foetus

the term for an unborn offspring still within the female mammal's body



dependent

an offspring needing others to look after it



adolescent

a mammal's young adult offspring



puberty

the period of life when a human's sexual organs mature



gestation

the period of time an animal is pregnant for



pregnant

when an animal contains a foetus within the body



toddler

the name of the stage given to a young child when they start to walk



prenatal

the stage before birth when the foetus is developing in the womb



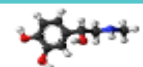
breeding

mating and producing offspring



embryo

the name of the unborn offspring in the first few weeks of development



hormones

chemical messengers produced by the body