Knowledge Organiser: Animals Including Humans

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



Lesson Sequence



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

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)

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

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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:

_____

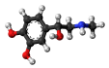
Name a change that only happens to boys during puberty:

_____

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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

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