

Year 5 Topic: Animals inc. humans



St Leonard's CE Primary Academy

Living and Learning Together with God's Help

Key questions:

- What is puberty?
- What is the growth and development of animals?
- How do we age to old age?
- What is the human ageing timeline?



Resilience & Tolerance

This topic will link to our '**resilience and tolerance**' drivers, as we find out about how animals including humans develop, change and mature through life.

Key Facts and Dates

What is puberty?

Puberty is when a child's body begins to grow, change and develop as they become an adult. In humans, puberty normally begins around age 11-12, however it can take place any time from age 8-14. Puberty happens when pituitary glands begin to release hormones.

Males



-Boys grow taller. They develop more muscle mass, and their chest and shoulders broaden.

-Boys' voices become deeper. Their skin becomes oilier, meaning they may get spots.

-Hair begins to grow on their faces and bodies, including armpit and pubic hair.

-Penis and testicles grow larger. The testicles begin to make millions of sperm.

Females



-Girls grow taller. They develop more breasts, and their hip bones widen. The body becomes curvier.

-Girls' voices become deeper. Their skin becomes oilier, meaning they may get spots.

-Hair begins to grow on their bodies, including armpit and pubic hair.

-Menstruation begins. Girls begin to have periods, and their uterus (womb) begins to grow.



What you should already know...

- Food chains are used to show how living things get their food
- Food chains are made up of producers and consumers
- Humans have incisor, canine, pre-molar and molar teeth, each with different jobs. Animals have different make-ups of teeth depending on their food.
- The digestive system has several functions, including ingestion, absorption and excretion. It is made up of

What is the growth development of animals?

Humans	House Mice	African Elephants	Saltwater Crocodiles	Blue Whales
Gestation Period: 9 months	Gestation Period: 20 days	Gestation Period: 22 months	Gestation Period: 2-3 months	Gestation Period: 10-12 months
Sexual Maturity: 11-17 years	Sexual Maturity: 4-6 weeks	Sexual Maturity: 10-12 years	Sexual Maturity: 10-12 years	Sexual Maturity: 10 years
Life Expectancy: 80 years	Life Expectancy: 1 year	Life Expectancy: 60 years	Life Expectancy: 70 years	Life Expectancy: 90 years

Animals use some of the energy from the food they eat to grow. During the growth process they change and mature into an adult - similar to humans. This process is known as development.

How do we age to old age?

Muscle mass decreases and muscles lose strength. Wrinkles develop on the skin, and it loses elasticity. Hair begins to turn grey/white. Many people begin to lose the hair on their heads. Fertility decreases. People begin to shrink in height as bones and cartilage become worn down. Organs begin to lose their effectiveness, and the senses become weaker.

Vocabulary

Fertilisation

The process of the male and female sex cells fusing together

Prenatal

The stage of development from the time of fertilization to the time of birth.

Gestation

The process or time when prenatal development takes place before birth

Reproduce

To produce young

Asexual reproduction

A process where one parent produces new life

Sexual reproduction

A process where two parents - one male one female - are required to produce new life

Life cycle

The changes a living thing goes through, including reproduction

Adolescence

The social and emotional stage of development between childhood and adulthood

Puberty

The physical stage of development between childhood and adulthood

Menstruation

When the female body discharges the lining of the uterus. This happens approximately once a month

Adulthood

The stage of development when a human is fully grown and mature

Life expectancy

The length of time, on average, that a particular animal is expected to live

Human Ageing Timeline

