Year 5: Animals, including Humans

Reproduction in Animals and Humans:

Gestation is the first stage in the human life cycle:

Animals reproduce sexually, meaning that two people (male and female) are required to create new life.

Sperm from a male and an egg from a female is required for a new life to occur.

Mammals, including humans, give birth to live young.

The time period between conception and birth is known as gestation.

Different animals have different gestation periods.

This can range from a few weeks to almost 2 years (squirrels 44 days, pigs 112 days, humans 280 days & giraffes 425 days)

Animal Gestation Periods

Animal		Gestation
For	HAMSTERS	15-17 days
1	RATS	21 days
4	RABBITS	31 days
1	KANGAROOS	32-39 days
nt.	SQUIRRELS	44 days
As.	DOGS	60-63 days
MI	CATS	60-63 days
RA	SHEEP/GOATS	151 days
PAR.	PIGS	115 days
	cows	280 days
MA	HORSES	336 days
TAR	ELEPHANTS	624 days

Child growth from pre-birth to puberty:

All people start off as a foetus in their mother's uterus.

A foetus grows in the womb, where it gets nutrition through a tube called the umbilical cord.

When a woman has a foetus growing inside her, we say she is pregnant

After around 9 months, the mother gives birth. From birth to around 2 years old, we say the child is a baby.

Babies are dependent on adults, and need to be fed (with milk at first, then later with food from around 6 months old.

After the age of 3, children become more independent than babies, and they continue to become more independent as they get older; they begin to eat food that is given to them and dress themselves.

Children develop into adolescence from approximately age 10 to age 19.

During adolescence, children will undergo puberty.

Our bodies change as we develop into adulthood and old age:

In adulthood, the body reaches its peak strength between the ages of 18 and 39.

People often choose to reproduce during their adult years.

As we get older, the cells of our bodies are not as efficient at replacing themselves and this leads to aging.

As we get older, our muscles can become smaller and our bones and joints more easily damaged, making physical activity harder.

As we age, our hair often turns grey, our eyesight may become worse, our memory may decline and various other parts of the body decline in their ability to perform as they once did.

Aging is a process that takes time and changes differ from person to person.

We can stay healthy in our old age by adopting a healthy diet and maintaining a good level of exercise.

Old age is the final stage of development for humans.

Children change through puberty:

Puberty is the stage of development between childhood and adulthood.

Physical growth occurs so that the body changes to that of an adult.

These changes allow people to reproduce.

At this stage of development, hormones promote growth in height and growth of hair.

In boys, the larynx grows to form an 'Adam's apple' and the voice becomes deeper; sweat glands produce more sweat; hair grows under the armpits and pubic hair starts to grow; the scrotum, testes and penis develop; the body becomes taller and muscles develop.

In girls, the larynx grows; sweat glands produce more sweat; hair grows under the armpits and pubic hair starts to grow; breasts begin to develop; menstruation begins; the body becomes taller as all parts grow.

KEY VOCABULARY:



ADOLESENCE: the stage between childhood and adulthood



ADULT: the fully grown form of a species



CONCEPTION: the point at which an egg is fertilised



EGG: oval or round object laid by a female bird, fish, reptile or invertebrate



FOETUS: an unborn offspring of a



GESTATION: he process or time when prenatal development take place



MENSTRUATION: the monthly discharge of blood from non-pregnant women after puberty



PREGNANT: having a child or young develop in the foetus



PUBERTY: the physical stage of development between childhood and adulthood



REPRODUCTION: a process where two parents - one male and one female - are required to produce new life.



SPERM: the male reproductive cell



UTERUS: the hollow, pear shaped organ in a woman's pelvis



WOMB: also known as a uterus - where the foetus develops and grows