

KNOWLEDGE ORGANISER

BIG IDEA: Genes

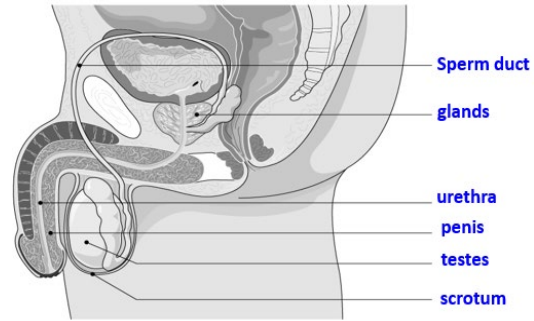
TOPIC: Human reproduction

Key Word	Definition
Adolescence	The time between childhood and adulthood
Puberty	The physical changes that happen to people during adolescence
Reproductive system	All the male and female organs involved in reproduction
Penis	Organ which carries sperm out of the male body
Vagina	Where the penis enters the female body and sperm is received.
Embryo	The developing baby during pregnancy.
Gamete	The male gamete (sex cell) in animals is a sperm, the female an egg.
Fertilisation	Joining of a nucleus from a male and female gamete
Ovary	Organ which contains eggs
Testes	Organ where sperm are produced
Uterus	Where the baby develops in a pregnant woman
Ovulation	Release of an egg cell from the ovary
Menstruation	The monthly cycle, beginning with the period that is controlled by hormones and allows a woman to get pregnant

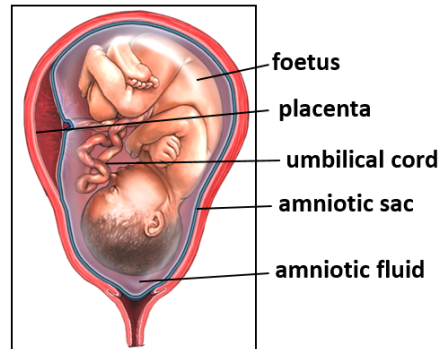
The developing foetus relies on the mother to provide it with nutrients – so during pregnancy mothers shouldn't smoke or drink alcohol. This is because the chemicals would get passed to the foetus



The male reproductive organs



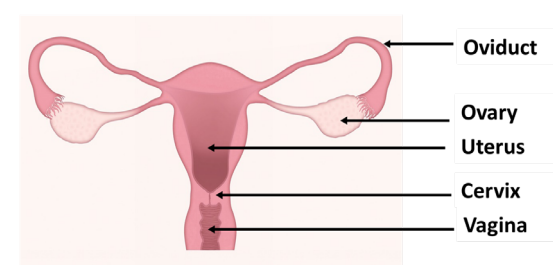
If an egg is fertilised it becomes a zygote and settles into the uterus lining. Here it grows into an embryo and then becomes a foetus (at 8 weeks).



The foetus grows within the amniotic sac, which is filled with amniotic fluid. The amniotic fluid protects the foetus.

The placenta connects the foetus to the mother and delivers oxygen and nutrients to the foetus.

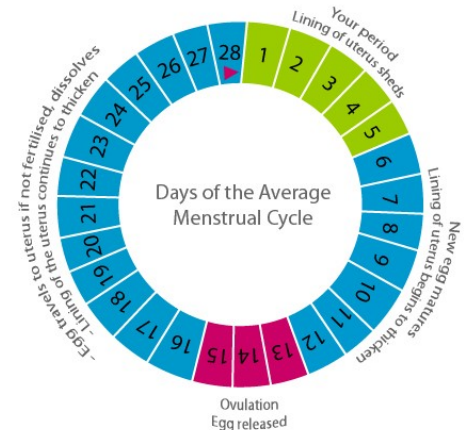
The female reproductive organs



The menstrual cycle is where the lining of the uterus is lost.

This prepares the female for pregnancy and stops if the egg is fertilised by a sperm.

The menstrual cycle lasts approximately 28 days.



Knowledge organiser

Big idea:

Y7 topic: Human reproduction



I have already learned:

In KS2: The changes in humans as they develop from birth to old age.
The life process of reproduction in some animals and humans.

This topic links to:

Y7: Plant reproduction – looking at gametes

Y7: Cells topic – looking at sperm and egg cells

Y8: Inheritance topic - looking at how we inherit characteristics from parents

It is important to study about human reproduction because...

It explains how your body works and what changes you go through during puberty. It will also teach you how the menstrual cycle can lead to pregnancy and how a baby develops.

Possible careers involving plant reproduction are...

Teacher

Doctor

Nurse

Midwife