

Knowledge: Adaptations

1	Adaptations are characteristics which organisms have developed to best survive in their surroundings
2	Organisms with the best suited adaptations can breed and pass these on
3	Those who are not best adapted will die out and not be able to pass on their genes

Knowledge: Inherited Variation

Anything that comes directly from your parents, anything that you inherit

1	Examples can include lobe less or lobed ear lobes and eye colour.
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Knowledge: Environmental Variation

Any type of variation that is caused by your surroundings

1	Factors that can cause environmental variation include diet, education and lifestyle.
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Environmental factors can also impact inherited factors, e.g. a poor diet can affect height or your exposure to the sun can affect skin tone

Characteristics which are inherited and not affected by environmental variation include natural eye colour, blood group and genetic diseases

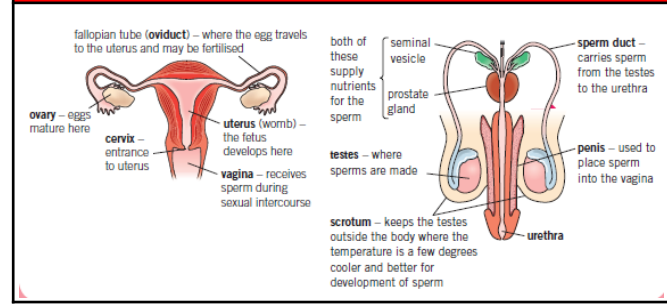
Knowledge: Variation

1	The differences in characteristics of living things is known as variation
2	There is a large amount of variation between different species , but within species many more characteristics are shared
3	Even though two organisms may look the same, they will always have variation between them.

Knowledge: Adolescence

1	Adolescence is the process in which a child changes into an adult, it involves both physical and emotional changes
2	The physical changes alone in this time are known as puberty , these are caused by sex hormones

Knowledge: Reproductive System



Key Vocabulary

1	Gametes	The male gamete (sex cell) in animals is a sperm, the female gamete is an egg.
2	Gestation	Process where the baby develops during pregnancy.
3	Fertilisation	Joining of a nucleus from a male and female sex cell.
4	Amniotic fluid	Liquid that surrounds and protects the fetus.
5	Placenta	Organ that provides the fetus with oxygen and nutrients and removes waste substances. It also acts as a barrier, stopping infections and harmful substances reaching the fetus.

Knowledge: The menstrual cycle

The **menstrual cycle** is the process in which an egg is released from an ovary and leaves through the vagina

Day 1	blood from the uterus lining lost (a period)	<p>If the egg is fertilised the cycle stops until the baby is born</p>
Day 5	Bleeding stops, uterus lining starts to re-grow	
Day 14	Egg released from one of the ovaries (ovulation)	

Additional Information: Knowledge of Fertilisation, Implantation & Gestation required.