

Science Knowledge Organiser - Year 5

Unit: What stages of life does a human experience?

Key Vocabulary:

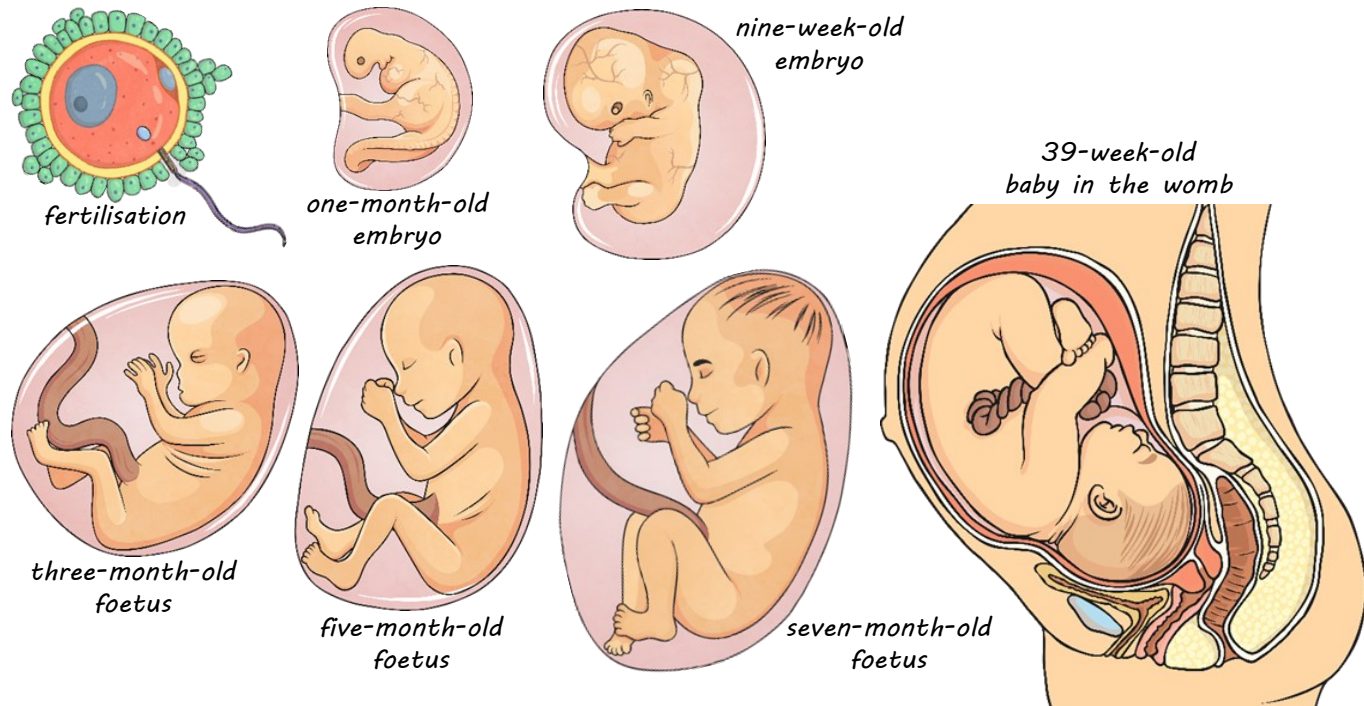
adolescence	Adolescence is the social and emotional stage of development between childhood and adulthood.
adulthood	Adulthood is the stage of development when a human is fully grown and mature.
asexual reproduction	Asexual reproduction is a process where one parent produces new life.
fertilisation	Fertilisation is the process of the male and female sex cells fusing together.
gestation	Gestation is the process or time when prenatal development takes place before birth.
life expectancy	The length of time, on average, that a particular animal is expected to live is called life expectancy .
menstruation	Menstruation happens once a month. It is when the female body discharges the lining of the uterus.
prenatal	The stage of development from the time of fertilisation to the time of birth is called prenatal .
puberty	Puberty is the physical stage of development between childhood and adulthood.
reproduce	To reproduce is to produce young.
sexual reproduction	Sexual reproduction is a process where two parents - one male and one female - are required to produce new life.

Science Skills:

- Describe the changes as humans develop to old age.
- Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

Key Facts:

- **Puberty** occurs during the **adolescent** stage of human development, usually between the ages of 11 and 17.
- During **puberty**, two parts of the brain (the hypothalamus and the pituitary gland) start to make more of some hormones.
- Apart from humans, other animals go through **puberty** too.
- The **gestation** periods of animals can often vary, depending on their size and habitat.
- At different stages of development, we need to adjust our diets.

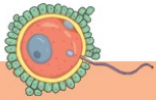


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Unit: What stages of life does a human experience?

fertilisation

The male and female sex cells fuse together.



prenatal

The cells develop and grow into a foetus inside the mother's uterus. After around nine months, the baby is born.

infancy

Rapid growth and development. Children learn to walk and talk.

childhood

Children learn new skills and become more independent.

adolescence

The body starts to change over a few years. The changes occur to enable reproduction during adulthood. Adolescents are much more independent.

middle adulthood

Ability to reproduce decreases. There may be hair loss or hair may turn grey.

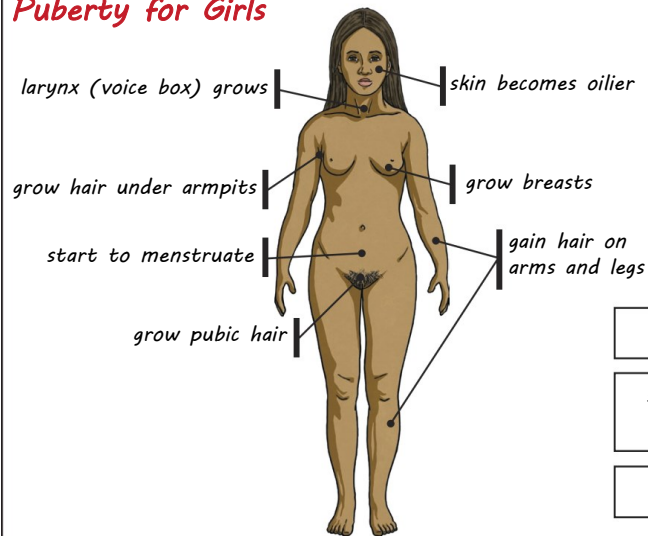
late adulthood

Leading a healthy lifestyle can help to slow down the decline in fitness and health which occurs during this stage.

early adulthood

The human body is at its peak of fitness and strength.

Puberty for Girls



Puberty for Boys

