Changes and Reproduction

Science Knowledge Organiser: Animals including humans

I already know...

- Humans grow and change over time.
- Living things have life cycles.
- Animals reproduce to produce offspring.

Vocabulary

puberty – the period when boys' and girls' bodies become sexually mature.

hormones – chemicals in the body that control growth and change.

ovaries – female organs that store egg cells.

testicles – male organs that produce sperm cells.

sperm – the male sex cell.

egg cell (ovum) – the female sex cell.

vagina – a muscular tube inside the female body.

penis – the male reproductive organ outside the body.

reproduction – the process by which living things produce offspring.

gestation – the time when a baby develops inside the womb.

ageing – the process of growing older.

Key knowledge

The human body changes at every stage of life:



Gestation

The baby develops inside the mother's womb.



Infancy

The baby depends on parents and grows quickly.



Childhood

The body and brain continue to grow and strengthen.



Adolescence

The body changes quickly and becomes sexually mature.



Adulthood

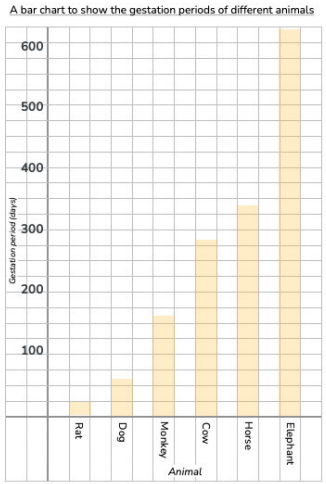
The body is fully developed and able to reproduce.



Old age

The body becomes weaker and less able to repair itself.

Scientific enquiry



- Data can be presented in bar charts.
- Bar charts can be used to compare gestation periods.
- Patterns can be identified from data.

Thinking questions

- How do humans change from birth to old age?
- Why does puberty happen at different times for different people?
- How can people stay healthy during puberty?
- How might a person's needs change as they get older?

I should now be able to...

- ☐ Describe the stages of human development.
- ☐ Explain what happens during puberty.
- ☐ Identify ways to stay healthy during puberty.
- ☐ Explain how people change as they age.

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