



Year 5



Statutory Requirements:

- Describe the changes as humans develop from birth to old age

Working Scientifically:

- Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- Using test results to make predictions to set up further comparative and fair tests
- Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, and written forms such as displays and other presentations

Key Knowledge:

- Humans have seven stages in their life cycle – foetus, baby, toddler, child, adolescent, adult, and elderly.
- The gestation period is the stage when a human, and other mammals, is in the mother's womb/uterus.
- From baby to adult humans grow, including developing muscle and bone mass and increasing brain function.
- Adolescence begins at puberty, during which there are many changes to the body such as development of sexual organs, growth of body hair, growth spurts and acne.
- In the elderly stage the body systems degenerate, including loss of muscle and bone mass, loss of hearing and vision and loss of brain function.
- By living a healthy lifestyle including exercise and diet we can limit and delay the effects of aging.

Vocabulary:

- | | |
|---------------|------------------|
| ➤ Life Cycle | ➤ Child |
| ➤ Gestation | ➤ Adolescent |
| ➤ Foetus | ➤ Puberty |
| ➤ Birth | ➤ Adult |
| ➤ Baby | ➤ Elderly Person |
| ➤ Toddler | ➤ Degeneration |
| ➤ Growth | ➤ Death |
| ➤ Development | ➤ Mammal |

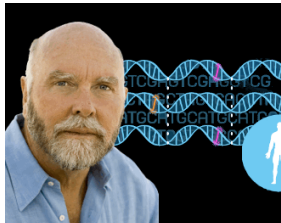
Key Scientists:



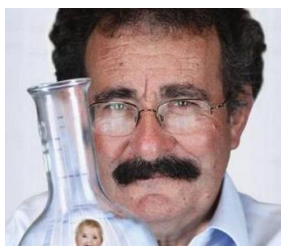
Classic
Edward Jenner
(1749 - 1823)
The 'Father of Immunology' for work on vaccines.



Classic
James Watson
(1928 -)
Co-founder of the molecular structure of DNA.



Contemporary
Craig Venter
(1946 -)
Sequenced entire DNA structures.



Contemporary
Robert Winston
(1940 -)
Contemporary scientist and TV presenter.