



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, in oral 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)

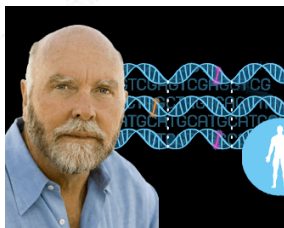
The 'Father of Immunology' for work on vaccines.



Classic

James Watson (1928 -)

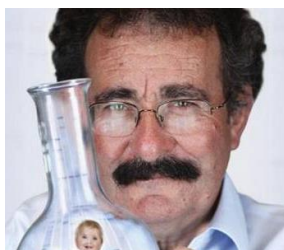
Co-founder of the molecular structure of DNA.



Contemporary

Craig Venter (1946 -)

Sequenced entire DNA structures.



Contemporary

Robert Winston (1940 -)

Contemporary scientist and TV presenter.