



Year 5



Statutory Requirements:

- Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- Describe the life process of reproduction in some plants and animals

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 Vocabulary:

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|-------------|-----------------|-----------------|
| ➤ Amphibian | ➤ Egg | ➤ Reproduction |
| ➤ Reptile | ➤ Larva | ➤ Pollination |
| ➤ Bird | ➤ Pupa | ➤ Fertilisation |
| ➤ Mammal | ➤ Nymph | ➤ Life Cycle |
| ➤ Insect | ➤ Adult | ➤ Offspring |
| ➤ Fish | ➤ Metamorphosis | ➤ Sperm |

Key Knowledge:

- Most fish, mammals, reptiles and birds have simple life cycles: before birth, young, adult.
- Most amphibians undergo a partial metamorphosis born from their mother or hatch from eggs, childhood under water (breathing with gills), adulthood on land (breathe with lungs).
- Most insects undergo a complete metamorphosis: egg (unborn stage), larva (young stage), pupa (inactive stage), adult (breeding stage).
- Reproduction is the process where living things produce offspring. In animals, it usually involves a male cell (sperm) and a female cell (egg).
- Most plants reproduce by pollination.

Key Scientists:



Classic
Jane Goodall (1934 -)
Primatologist



Contemporary
Steve Irwin (1962 – 2006)
The Crocodile Hunter



Contemporary
Paula Kahumbu (1966 -)
Elephant Conservationist