

Science: Living Things and Their Habitats

Year 5 Summer 1

Key Vocabulary

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| Life cycle | The series of changes in the life of an organism including reproduction. |
| Reproduce | (Of an organism) produce offspring by a sexual or asexual process. |
| Sperm | The male reproductive cell, formed in the testicle. A sperm unites with an egg to form an embryo. |
| Fertilises | Cause (an egg, female animal, or plant) to develop a new individual by introducing male reproductive material. |
| Egg | An oval or round object laid by a female bird, reptile, fish, or invertebrate, usually containing a developing embryo. |
| Metamorphosis | (In an insect or amphibian) the process of transformation from an immature form to an adult form in two or more distinct stages. |
| Asexual | (Of reproduction) not involving the fusion of gametes. |
| Plantlet | A plantlet is a young or small plant, produced on the leaf margins or the aerial stems of another plant. |

Scientific Concepts

Process (inc growth)

A series of actions or steps taken in order to achieve a particular end. The process of increasing in size.

Comparison

To compare two or more things, including their similarities and differences.

Scientific Knowledge

- 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.
- Describe and explain the process of respiration in humans and plants.
- Talk with knowledge about birth, reproduction and death of familiar animals or plants.
- Explore the work of well know naturalists (David Attenborough and Jane Goodall).

Why don't you...

Draw the life cycles of different animals?

Create a model showing how humans respire?

Write a report about the work of Jane Goodall?

Website Links

<https://www.bbc.co.uk/teach/class-clips-video/science-ks2--ks3-the-life-cycles-of-different-organisms/zvh8qp3>

Enquiry Questions

What are the differences between the life cycle of a mammal and a bird?

Pick an insect and describe its life cycle. Do all insects have a similar life cycle?

What things can affect the life cycle of an animal?

What is reproduction?

Are there any similarities between reproduction in plants and animals?

What are the main differences in the reproduction of different animals? E.g. between a fish and a bird?

What would happen to the respiration of plants and humans if there was no carbon dioxide?

What is a natural scientist?

Scientific Skills

- Use different ideas and suggest how to find something out.
- Make and record a prediction before testing.
- Plan a fair test and explain why it was fair.
- Set up a simple fair test to make comparisons.
- Obtaining and presenting evidence.
- Measure using different equipment and units of measure.
- Describe what they have found using scientific words.
- Make accurate measurements using standard units,
- Considering evidence and evaluating.
- Use a range of equipment (including a data-logger) in a simple test.