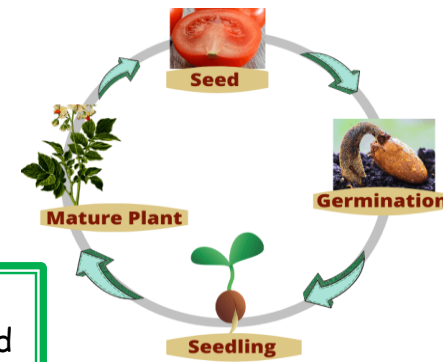


# Year 5 Living Things and Their Habitats Science Knowledge Organiser

Knowledge

Skills

Vocabulary



### Curriculum Coverage

- 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 .

### Knowledge and Skills Progression

Can we artificially pollinate plants? What happens to the plant after fertilisation and how does the flower change over time? Can I plan and run an experiment to allow me to observe the life-cycle of a plant? (ongoing throughout unit).

*To be able to plan the correct enquiry to answer a question.*

What are the functions of the different parts of a flower? Can I identify and label the different parts of a flowering plant, and explain their purpose?

*To be able to use scientific diagrams and drawings.*

How does the pollen from one flower reach another flower?

*To find things out using a range of secondary sources of information.*

*To be able to explain findings.*

What can I find out about the different stages of life cycles of different animals?

*To find things out using a range of secondary sources of information.*

*To be able to recognise which secondary sources will be most useful to my research.*

How do different mammals develop as they get older?

*To be able to recognise which secondary sources will be most useful to my research.*

*To choose how to report and present findings in oral and written forms.*

What are the different lifecycles of birds, amphibians and insects?

*To find things out using a range of secondary sources of information.*

*To choose how to report and present findings in oral and written forms.*

How do animals make babies?

*To find things out using a range of secondary sources of information.*

Can we artificially pollinate plants? What happens to the plant after fertilisation and how does the flower change over time? Can I plan and run an experiment to allow me to observe the life-cycle of a plant? (ongoing throughout unit).

*To be able to use scientific diagrams and labels.*

*To be able to report and present findings from enquiries, including conclusions.*

### Scientific vocabulary

**Animals** - amphibians, reptiles, birds, mammals, insects, fish

**Animal development** - egg, larva, pupa, nymph, adult, metamorphosis

**Parts of a flower** - petal, stamen (anther + filament), carpel (stigma + style + ovary + ovule)

**Processes** - pollination, fertilisation, germination, life-cycle, metamorphosis

### Scientific enquiry

How do different types animals reproduce, grow and develop? What processes do different animals go through from birth to maturity? What are the life cycle stages for different types of animals such as amphibians, birds and mammals?

How do plants reproduce? What processes are involved in plant reproduction? Do all plants reproduce in the same way? What are the functions of different parts of a flowering plant? What are the different stages of plant growth within its life cycle? What do plants need to thrive?

