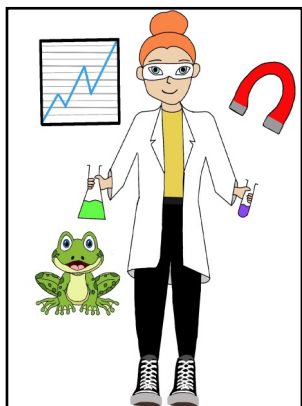




Knowledge Organiser

Year Group:	5	Subject:	Science– Living Things and their habitats	Term:	Autumn 1
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Enquiry Question

Do all lifecycles look the same?

What should I already know?

- Animals can be grouped into vertebrates (and then further into fish, reptiles, amphibians, birds and mammals) and invertebrates.
- Some examples of life cycles (including those of plants and humans)
- The processes of dispersal, fertilisation and germination.
- Reproduction is one of the seven life processes.
- Parts of a plant, their features and what their functions are.
- The word metamorphic means 'a change of form' (in the context of rocks)

Concept



Substantive Knowledge (key facts)

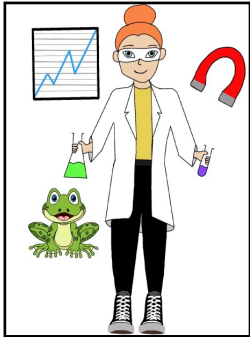
- A life cycle is the series of changes that an animal goes through in its life.
- Mammals and birds have a 3-stage life cycle.
- Many amphibians have a 5-stage life cycle.
- Most insects undergo metamorphosis and have a 4- stage life cycle.
- Plants can reproduce in two ways - sexual reproduction and asexual reproduction.
- Sexual reproduction in plants is cyclical.
- Asexual reproduction involves plants producing an identical copy of themselves.

Scientific skills I am practising

- I can gather, record, classify and present information in a variety of different ways to help me answer questions.
- I can identify differences, similarities or changes related to simple scientific ideas and processes.
- I can record findings and present data using simple scientific language, explanations, diagrams, pictures, keys, bar charts and tables.
- I ask my own questions about the scientific phenomena that I am studying, and select the most appropriate ways to answer these questions, recognising and controlling variables and noticing patterns

Sequence of learning

1)	Classify animals by their type: mammal, reptile, amphibian, bird and insect
2)	Explain differences in life cycles of different animals
3)	Describe the life cycle of a mammal
4)	Compare life cycles of amphibians and insects
5)	Describe the process of reproduction for plants
6)	Learn about natural and artificial plant reproduction



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Key vocabulary	
Tier 2	Tier 3
mammal reptile amphibian insect fish	germination ovaries Pistil stamen
life cycle reproduction pollination	metamorphosis chrysalis lava
natural artificial	sexual reproduction asexual reproduction fertilise