Year 5 - Science Knowledge Organiser - Circle of Life

What I already know...

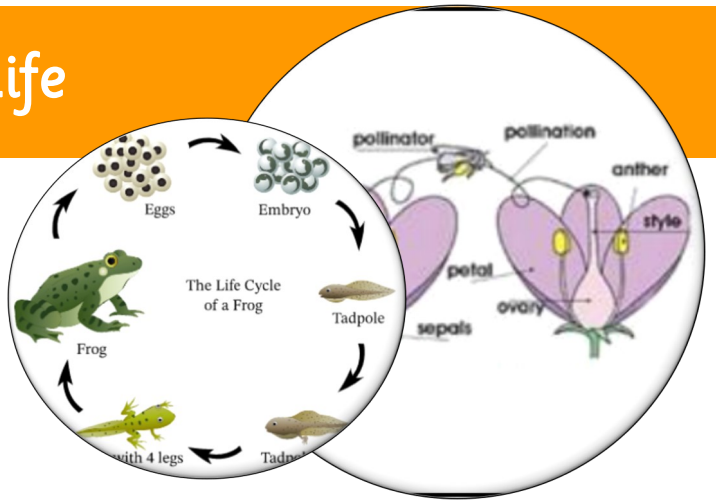
- Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.
- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.
- Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

What I will learn...

- Flowers are the reproductive organs of a plant.
- Plants cannot pollinate their own flowers: they need to get their pollen to the flowers of another plant.
- When pollen lands on the stigma of another flower, it joins with the egg and their DNA combines. The egg is now fertilised.
- In sexual reproduction, the male parts produce pollen and the female parts produce ova or seeds.
- All animals grow from an egg.
- In insects, fish and amphibians, this egg is a ball of jelly and the baby develops inside.
- Birds and reptiles lay larger eggs with a shell.

Key Vocabulary

Life cycle	The journey of changes that take place throughout the life of a living thing including birth,
Pollination	The transfer of pollen to a stigma to allow fertilisation.
Reproduction	The process of new living things being made.
Fertilisation	The action of fusing the male and female sex cells in order to develop an egg.
Amphibian	A vertebrate that I able to live both in and out of water.
Dispersal	Distributing or spreading things over a wide area.
Habitat	The natural home or environment of an animal, plant, or other organism.
Adaptation	The process of change by which an organism or species becomes better suited to its environment.



Making a difference at The Merton and beyond

In this topic children will explore the exciting and varied life cycles of different species, including mammals, amphibians and birds. They will also delve into the life process of reproduction in plants and animals. Opportunities will be given to explore how animals have physically adapted to survive and thrive in their natural habitat. Children will be inspired by our 'Animals in Hands' real life animal experience, holding animals from different parts of America and asking questions about each animal.

How to be a Scientist

- **Classifying animals** and plants
- **Communicating** information via words, visuals, charts, diagrams.