

Science Overview – Living things and their habitats

Year Five

Summer Term

Key Question:

Is there anywhere left to explore?

National Curriculum

- 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.

SUBSTANTIVE KNOWLEDGE

- 1) Know that humans develop inside their mothers.
- 2) Know that babies are dependent on their parents for many years until they are old enough to look after themselves.
- 3) Know that amphibians hatch from eggs and go through many changes until they become an adult.
- 4) Know that some creatures go through metamorphosis to become an adult.
- 5) Know that birds hatch from eggs and are looked after by their parents until they are able to live independently.
- 6) Know that mammals use sexual reproduction to produce their offspring and what happens during fertilisation.
- 7) Know that most plants contain the male and female sex cells.
- 8) Know the different ways that plants can be fertilised.
- 9) Know that some plants use asexual reproduction.

Key Vocabulary	asexual reproduction, fertilise, gestation, life cycle, metamorphosis, pollination, reproduction, sexual reproduction
Previous years vocabulary	organisms, respiration, sensitivity, reproduction, excretion, nutrition, environment, endangered species, extinct, classification, vertebrates, invertebrates, specimen, characteristics
Disciplinary Concepts	<ul style="list-style-type: none">• recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
Enquiry type to cover and enquiry suggestion	Observing over time (enquiry type) Observe and record the cycle of a butterfly or other creature over time? Or Does the size of the animal affect the length of the gestation period? or Observing the growth of plants from tubers, cuttings/bulbs.
Learning Milestones /Assessment	I can... <ul style="list-style-type: none">• Describe the life cycle of an amphibian.• Describe what metamorphosis is.• Describe the stages of fertilisation in mammal reproduction.• Name the male and female sex cells in plants.• Describe the different ways in which plants can be fertilised.• Describe the difference between sexual and asexual reproduction.