

## Year 5 Science Curriculum

Working scientifically links   Rubric/PCMD opp.   Key Vocabulary

### Living Things and their Habitats

**What's the big picture?** Recap prior knowledge from Year 4 unit - children to generate own questions for investigation *"I know how to ask simple scientific questions"*

**Prior learning:**

Notice that animals, including humans, have offspring which grow into adults. (Y2 - Animals, humans)

Know the life cycle of humans, chickens, butterflies and frogs

Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. (Y3 - Plants)

| National Curriculum Principles  | Objectives  | Knowledge and key Vocabulary  | Reading opportunities | Technology |
|---|---|---|-----------------------|------------|
| Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird | <p>I know the life cycle of different living things eg mammal, amphibian, insect and bird</p> <p>I know the differences between different life cycles</p> | <p>Children to look at the life cycle of a chicken, frog, butterfly and dog.</p> <p>Key vocabulary - <b>chick, egg, young, tadpole, frogspawn, froglet, caterpillar, pupa, larva, puppy, adult, reproduction, metamorphosis</b></p> <p><a href="#">Complete a double page spread</a></p>                            |                       |            |
| Describe the life process of reproduction in some plants and animals                        | I know the process of reproduction in plants  | <p>Children to dissect and label parts of a flowering plant inc. <b>filament, anther, stamen, stigma, style, ovary, ovule, pollination</b></p> <p>Research what each part of the flower is for. Sequence the process of reproduction in plants - asexual reproduction, plant clones itself using tubers/runners</p> |                       |            |
|   | I know the process of reproduction in animals   | <p><a href="#">Sexual reproduction - link to PSHE</a></p>   |                       |            |

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### Famous scientists

Sir David Attenborough- animal behaviourist

Eva Crane - reproduction in bees

Jane Goodall - primatologist

### Common misconceptions

Some children may think:

- all plants start out as seeds
- all plants have flowers
- plants that grow from bulbs do not have seeds
- only birds lay eggs.

### Enquiry ideas

| <u>Comparative tests</u>                           | <u>Identify and classify</u>             | <u>Observations over time</u>        | <u>Pattern seeking</u>  | <u>Research</u>  |
|--|--|--------------------------------------|---|--|
| Which seed shape takes the longest to fall?        | Identify and label the parts of a flower | How does frogspawn change over time? | Where in our school grounds can we find caterpillars?<br>Why might this be? | Why is the bee population in decline and what could the consequences of this be? |
| Do plants with bigger petals attract more insects? |  |                                      |   | What are the differences between the lifecycle of an insect and a mammal?        |