EDEN Academy Trust
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Science Curriculum – Cycle B
Upper Key Stage 2 – Spring 2

Theme – Living Things and their Habitats (Biology)

Enquiry Question –What is a life cycle?

National Curriculum Coverage

Pupils should be taught to:
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

Key Scientist:	**Comparative Test** What conditions of flowers attract the most bees? **Fair Test** Does the shape of a seed affect how long it takes to fall?	**Observation over time** How do brine shrimp change over their life time?	**Pattern Seeking** Is there a relationship between the number of petals and number of stamens on a flower?	**Research** What are David Attenborough and Jane Goodall well-known for?

Objective	Challenge	Working Scientifically	Vocabulary
• To know and describe the differences in the life cycles of mammals, amphibians, insects and birds - To know the different stages associated with each animals' life cycle - mammal, amphibian (frog –metamorphosis), insect (butterfly – metamorphosis, grasshopper – incomplete metamorphosis) • To know and describe the stages of the life cycle of common plants -seed, germination, growth, pollination, reproduction/fertilisation, and seed dispersal. • To know the main parts and functions of a flowering plant - stigma, stamen, carpel, style, ovaries, filament and	• To observe their local environment and draw conclusions about life cycles eg. Plants in the vegetable garden or flower border • To explore and research the work of well-known naturalists and animal behaviourists (David Attenborough and Jane Goodall) **or own challenges*	See separate objectives sheet.	Mammal, amphibian, insect, bird, (asexual/sexual) plants reproduction, life cycle, functions, flowering plant, stigma, style, ovary, filament, stamen, anther, spores, ferns, conifers, mosses

anther - To know the part they play in reproduction in the life cycle of a plant • To know the life process of reproduction in some plants - To know that non flowering plants, such as ferns and mosses, use spores to reproduce - To know that flowering plants reproduce sexually through pollination (links with female/male parts) • To know there are different types of reproduction in plants (sexual and asexual) - To give examples of some plants that reproduce sexually (flowering ones) - To give examples of some plants that reproduce asexually - To grow new plants from different parts of a parent plant (potatoes, carrot tops etc) • To know and describe the life process of reproduction in animals - To know that animals reproduce sexually **NB: Puberty links** - To compare how different animals reproduce and grow.			