Brough Primary School – Curriculum Intention Plan 2021 - 2022



Subject: Science (Whole of Spring T Year Group: Year 5		Spring Term) Area of learning: All Living things and their habitats
Links to previous work/Remember when	 Year types they g Year and n Year ways; Year identii enviro Year cause <u>Worki</u> being settin makir gathe report using found 	 3&4 - knowing that animals including humans need the right of food, knowing they cannot make their own food and that let nutrition from what they eat; 3&4 - knowing that humans and some animals have skeletons inscles for support, protection and movement; 3&4 - knowing that living things can be grouped in a variety of 3&4 - exploring and using classification keys to help group, y and name a variety of living things in the local and wider inment; 3&4 - knowing that environments can change which can problems for living things. ng Scientifically able to ask and investigate relevant scientific questions; g up simple scientific enquiries; g systematic and careful observations; ring, recording and presenting data; ing on findings both oral and written; results to draw simple conclusions straight forward scientific evidence to support what they have out.
Term	Year 5	Key Skills to be taught
Spring 2022 What the children should know at the end of this series of lessons		 Knowledge and skills required to describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird; Describe the life processes of reproduction in some plants and animals, including the sexual and asexual reproduction of plants, and sexual reproduction in animals. An understanding of the work of David Attenborough Working Scientifically Develop their knowledge of planning different scientific investigations to answer questions, including recognising and controlling variables. Continue to use scientific equipment to measure but with increasing accuracy. How to record data in increasing complexity through diagrams, labels, tables, bar and line graphs. Using test results to make predictions and set up comparative and fair tests. Reporting and presenting findings from investigations in oral and written forms for display and other presentations. Identify how scientific evidence has been used to support or discount ideas and arguments

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Vocabulary

Gamete, stamen, stigma, carpel, pistil, pollination, germination, flowering, life cycle, seed, pollen, anther, filament, style, ovary, botanical illustration, dissection, Corm, bulb, spores, cutting, fern, moss, liverwort, tubers, asexual, non-flowering, propagation, artificial, natural, Life cycle, asexual & sexual reproduction, metamorphosis, amphibian, insect, Mammal, bird, life cycle, gestation, foetus, sperm, egg, uterus, chick, egg, baby, adult, Life cycle, mammal, bird, amphibian, insect, reproduction, Natural scientist, naturalist, observation, conservation, endangered.

Sequence of	Objectives and suggested details provided by subject leader.
learning	
1	Recap prior learning about animals and their habitats to allow you to get an understanding of how much or the prior learning the children remember.
	 Could be via a prepared quiz or alternative that deals with food and nutrition, skeletons and their function, classification of living things and a basic understanding of environmental change.
2	 Describe the life processes of reproduction in some plants. Dissect and label the parts of a flower, identifying the male and female gametes
	Make a detailed watercolour pencil drawing of a flowering plant in the style of a Linnaean illustration
	 Research the life cycle and reproduction of their flowering plant
3	Describe asexual reproduction in some plants.
	Draw botanical illustrations using watercolour pencils that show the life cycle of some plants that reproduce asexually
	 Identify and be able to explain the ways that plants can reproduce asexually, both naturally and artificially
	 Set up an investigation into artificial asexual reproduction in flowering plants
4	Describe the differences in life cycles of a mammal, an amphibian, an insect and a bird.
	 Draw zoological illustration of the lifecycles of two insects and an amphibian
	 Research the life cycle of insects and amphibians noting that they reproduce sexually
5	Describe the differences in life cycles of a mammal, an amphibian, an insect and a bird.
	 Identify a local mammal and bird species and research their life cycles online
	 Draw and annotate a life cycle zoological illustration for both mammal and bird lifecycles
6	Research the life and work of a famous naturalist such as Sir David Attenborough or Jane Goodall.
	 Make observations, record findings and draw conclusions, as natural scientists
	Research and present, in role, information on a significant naturalist
Assessment	Research the life cycles of an insect, amphibian, mammal, bird and plant
task	that contrasts those already studied. Create a series of annotated
(2 weeks work)	scientific illustrations that reflect the life cycles of the animals and plants

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they have researched. Use all skills developed so far for sketching and developing colour and texture.

Learning Outcome/product

In the assessment task, children will demonstrate their understanding of the differences in the life cycle of mammals, amphibians, insects and birds. Their scientific illustrations should include information on reproduction within their annotated diagrams.

Assessment records	List only those children who have not achieved the expected outcomes.			

Assessment records	List only those children who have exceeded the expected outcomes.

End of unit assessment question	
E.g. How does the life cycles of mammals differ from amphibians or insects?	