Foston CE, Terrington CE VA & Stillington Primary Schools in Collaboration with Langton Primary School Progression Map

Subject: Biology- Understanding evolution and inheritance Subject Intent:

Within the Foston, Stillington and Terrington Federation, in collaboration with Langton Primary School, we intend that all our children will develop a deep curiosity about the world around them, and to experience the wonder which comes with gaining a knowledge and understanding about the processes and systems they can and can't see.

Our children will further develop:

- The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings;
- Confidence and competence in the full range of practical skills;
- Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations;
- Scientific enquiry skills to be embedded in each topic throughout the school to allow the children to build upon prior knowledge;
- The ability to undertake practical work in a variety of contexts;
- Have a clear understanding of the jobs available from science specialisms.

Кеу	Overview	EYFS	Key Stage 1	Key Stage 2- Cycle A/C	
Concept					
eritance	Торіс	All about me Autumn 1 Year A&B	Animals including Humans (Staying Alive Cycle A, Animal Safari Cycle B)	KS2 LKS2 Adaptations, UKS2 Evolution and Inheritance	
Ч Ч	Objectives NC/	UTW		LKS2	UKS2
Understanding evolution and i	Milestones	Talk about members of their immediate family and community. Begin to make sense of their own life-story and family's history	To notice that animals, including humans, have offspring which grow into adults. Identify how humans resemble their parents in many features.	Identify how plants and animals, including humans, resemble their parents in many features. Recognise that living things have changed over time. Know that fossils provide information about living things that inhabited the Earth millions of years ago.	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.

	Make connections between the features of their family and other families. ELG: Talk about the lives of the people around them and their roles in society.		Identify how animals and plants are suited to and adapt to their environment in different ways.	Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
Knowled	ge To be able to observe and describe changes over time. To know who the different people are in my family. To know the features which make my family unique. To know how life has changed over time for members of my family.	To know that animals have offspring which grow into adults. Specific examples to be taught: Humans Pandas Frogs Shark Snake Robin To know that humans have similar features to their parents. Specific examples to be taught: Eye colour Hair colour Facial features, to include eye shape, jawline, shape of nose	To know how many features of plants and animals resemble their parents' features. Specific example/s to be taught: Inherited genes determine physical features and personality. Inherited diseases, specifically cystic fibrosis and sickle cell. To know that living things have changed over time, in a process called evolution. Specific example/s to be taught: Darwin's finches To know that fossils provide information about living things that inhabited the Earth millions of years ago. Specific example/s to be taught: Body fossils – leaves, teeth, shells, bone. Trace fossils – footprints, burrows, excrement.	To recognise and understand how living things have changed over time, and that evolution ensures that organisms are fully adapted to their surroundings, gives rise to new species, as well as making others extinct. Specific example/s to be taught: Darwin's finches and the dodo To know that fossils w information about living things that inhabited the Earth millions of years ago. Specific example/s to be taught: Body fossils – leaves, teeth, shells, bone. They give information about the shape and structure of the organism. Trace fossils – footprints, burrows, excrement. These give information about behaviour, eg how an animal moved and whether it moved alone or with others. To know offspring of parents are the same kind.

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				specific example/s to be taught:
				Humans
				Pandas
				Frogs
				Shark
				Snake
				Robin
				To know that normally offspring vary and
				are not identical to their parents.
				Specific example /s to be taught:
				Humans
				Cate
				Dogs
				Dogs
				To know different ways plants and
				animals are suited to their environment
				Specific example/s to be taught:
				Polar bear
				Camel
				Owls
				Fish
				To know that adaptation may lead to
				evolution.
				Specific example/s to be taught:
				Horse
Vocabulary	Community	Offspring – young born to animals and	Organisms - This is another word that	Adaptative traits – a developmental
vocabulary	School	humans	can be used to mean (living things)	nattern which helps species survive
	Home	Tanana.	can be used to mean inving timits.	pattern which helps species survive.
	Family	Features-Characteristics of animals	Characteristics - the features of an	Inherited traits - traits which are passed
	mother	and plants og feathers fur shell	organism which distinguish it from	on from your parents
	father	branch etc	organism which distinguish it from	on nom your parents.
	latilei	branch etc.	anotner.	

Sister			Fossils – the preserved remains or traces
Brother	Variation-Similarities and differences	Species – a group of organisms which	of prehistoric life.
Aunts	between one animal or plant group.	reproduce with each other and have	
Uncles		natural offspring	Evolution – the theory that all living
Cousins.	Variety-the assortment of plants and		things alive today developed from earlier
daughter.	animals in the world	Offspring – the young born of living	types.
Son,		organisms	
unique		5	Mass extinction – where at least half of
·		Inheritance – when living things	all species die out in a short space of
		reproduce they pass on characteristics	time.
		to their offspring	
			Impact – what happens as a result of
		Variation – the difference in	something else happening.
		characteristics between members of	
		the same species.	Inheritance – the process by which
			genetic information is passed from
		Adaptation – a characteristic of a living	parent to child.
		thing which helps it to survive in its	
		environment.	
		Habitat – the home of an animal or	
		plant.	
		Environment – An environment	
		contains many habitats and these	
		include areas where there	
		are both living and non-living things.	
		Fossils – the preserved remains or	
		traces of prehistoric life.	