Year 2: Science Overview 2023-2024						
Topic	<u>Autumn</u> Out of Africa		Spring How to be a Victorian		<u>Summer</u> Wonderful Water	
Main focus	Kenya & UK	Wangari Maathai	Kentish Town Victorian Baths		Oceans	Lighthouses & Lifeboats
Knowledge Living things and their habitats Plants Animals including humans Materials	Plants - Observe how s into mature plants Find out how plants ne suitable temperature to	ed water, light and a	Identifying Materials - comparing uses of difference of the comparing shapes - Find can be changed by square of the comparing shapes - Find can be changed by square of the comparing shapes - Find can be changed by square	erent materials d out how solid shapes	animals, including hum food and air)	cluding humans, have atto adults cribe the basic needs of ans, for survival (water, the differences between ead and things that tures live in habitats to and describe how de for the basic needs mals and plants, and ach other

			Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain and name different sources of food
Enquiries	Classifying Based on the children's criteria classify seeds and bulbs Observing over time Plant seeds and bulbs and observe how they grow Pattern seeking Children generate questions for investigation such as: Do big seeds germinate more quickly? Does it matter which way round you plant a bulb or seed? Which comes first, the root or the shoot? Researching Look at packets to decide how to plant and care for bulbs and seeds. Research plantlife in Africa. What crops grow there? Do we eat any foods that come from Africa? Examine labels on food products.	Classifying Based on the children's own criteria, classify materials e.g. samples of wood, metal, plastic, etc. Comparative/Fair testing Test materials for different uses, thinking about Victorian inventions.	Classifying Find things that are living Find things that are dead Find things that have never been alive Classify things found in the environment, using their own criteria, leading to living, dead and never been alive Classifying Classify animals found in the sea based on physical structure Classify plants found in the sea Observing over time Observe caterpillars turning into butterflies/tadpoles turning into frogs Pattern seeking In the local environment children generate their own questions eg Where do snails live? Where do you see more butterflies? Researching Use secondary sources to find out more about whales. (Link to core book) Researching Use keys to identify animals found during pond dipping session Research adult animals and their young

Knowledge Matrix	Prior Knowledge and Future Learning					
Working Scientifically	Working Scientifically Skills Year 1 and Year 2					
Experiences	Continuing responsibility for the Kitchen garden - harvesting the fruit and vegetables and cooking healthy, simple dishes with them					
Vocabulary	Plants: Seed, bulb, plant, mature, water, light, moisture, growth, temperature, comparison, healthy, shoot, seedling, germination, soil, earth, reproduction, food store, survival, variety, temperature	Materials: Suitable, unsuitable, purpose, object, material, property, characteristic, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic, foil, card/cardboard, rubber, wool, clay, hard, soft, stretchy, rigid, flexible, waterproof, absorbent, strong, fragile, rough/smooth, reflective, non-reflective, transparent, opaque, translucent, shape, changed, push/pull, twist, squash, bend, stretch, pinch, poke, roll, squeeze.	Living things and their habitats: Habitat, micro-habitat, food chain, characteristics, environment, dependency, food source, conditions, survival, nutrition, reproduction			
Assessment Tasks	TAPS Assessment Comparing Plant growth in different conditions Working scientifically - observe closely using simple equipment	TAPS Assessment Boat Materials Enquiry focus - describe what they have found out and use their results to make comparisons	TAPS Assessment Sorting living and non-living Working scientifically - Use of appropriate scientific language to communicate their ideas			
Cross - curricular links						
Events	Black History Month Anti- Bullying Week Harvest Assembly Christmas Performance	Book Week	Crick workshops Science Week STEAM Exhibition Sports Day Healthy Schools Week			
Science is:	RESPONSIVE Responds to what is happening rig CREATIVE Linked to science and the arts COMMUNITY Has a purpose EXPERIENTIAL Is enhanced by experiences	ght now				