Science Long Term Planning

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Y1 Plants Identify and name plants Simple structure of a plant 	**Y1 Human Body Parts** Identify and label basic body parts; associate body parts with senses 	**Y1 Everyday materials Classifying and grouping** Distinguish between object/material Identify name materials Simple properties Compare and group 	**Y1 Animal groups** Identify and classify animals into groups (mammals, birds, fish, etc.); compare animal characteristics 	**Y1 Animal Diets** Classify animals by diet (herbivores, carnivores, omnivores); relate physical characteristics to diet 	**Y1 Seasonal changes** Changes in weather in seasons Dangers of the sun World around them Day length 
	Y2 Plants Seeds and bulbs into plants Conditions for growth  **Y2 Living things and their habitats** Living/non-living Living things in habitats Identify name animals and plants different environments	**Y2 Materials** Identify compare uses of variety of materials Classifying materials properties How materials can be changed 	**Y2 Animals, including humans** Needs for survival Basic reproduction and growth Life cycle living things Exercise, balanced diet, hygiene 	**Y2 Local habitats** Living/non-living Living things in habitats Identify name animals and plants different environments in the locality 	**Y2 Living things and their habitats** Living/non-living Living things in habitats Identify name animals and plants different environments 	**Y2 Living things and their habitats** Food and simple food chains 

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	Y3 Plants Identify and describe functions Requirements for life and growth Water transportation Life cycle flowering plants 	Y3 Rocks Compare and group rocks based on simple properties How and why fossils are formed Soils made from rock/organic matter 	Y3 Light Need light to see, darkness is absence of light. Light is reflected Shadows and how they change. Sunlight can be dangerous. 	Y3 Animals, including humans. Animal and human nutrition. Skeletons and muscles of animals, including humans. 	Y3 Forces and magnets Friction Contact and distance forces. Repel and attract. Magnetic and non-magnetic materials. 	Y3 Bee Project Working scientifically skills. 
	Y4 States of Matter States of matter Compare and group SLG. Changing state on heating and cooling Temperature changes. Evaporation and condensation in water cycle. 	**Y4 Animals, including humans** Functions of digestive system Identify teeth and their functions Construct and interpret food chains. 	**Y4 Sound** How sounds are made – vibrations Patterns pitch/volume Sounds fainter as distance increases Materials affect volume 	**Y4 Living things and their habitats** Identify and name living things: plants, vertebrates, invertebrates Use and make classification keys Reasons for classifying Changing environments Dangers to specific habitats. 	**Y4 Electricity** Common appliances use electricity Simple series circuits Circuits to make things work Switches Conductors and insulators link to materials 	**Y4 History of Science** Impact of science on technology, cultural development and our understanding of the world around us.

	Y5 Properties and changes to materials Compare group everyday materials according to properties Dissolving Separating mixtures filtering, sieving, evaporating Reversible changes and irreversible formation of new materials – oxidisation 	Y5 Animals, including humans Changes as humans develop 	Y5 Forces Gravity Air resistance, water resistance and friction Gears, pulleys, levers and springs 	Y5 Living things and their habitats Life cycles – mammal, amphibian, insect, bird Reproduction in animals and plants Sexual and asexual reproduction 	Y5 Earth and Space Movement of Earth relative to Sun and planets 	Y5 The Scientific Method
	Y6 Living things and their habitats Classification in groups according to characteristics microorganisms, plants, animals. 	Y6 Animals, including humans Impact of diet, exercise, drugs and lifestyle on the way bodies function. Circulatory system 	Y6 Evolution and Inheritance Fossils provide information about living things millions of years ago Offspring are not identical to parents Adaptation may lead to evolution DNA 	Y6 Light Light travels in straight lines See light because light is reflected into our eyes or given out by objects The eye and how we see. Light travels from light sources. Shadows change. 	Y6 Electricity Identify and name parts of a circuit Associate e.g. brightness bulb etc with voltage Compare and give reasons variations in component functions