

Science Overview 2021-22

	Foundation	Year 1	Year 2	Year 3	Year 4
Autumn	<p>Material Changes</p> <p>Feel and sort objects and begin to identify some basic materials.</p>	<p>Seasonal Observations</p> <p>Change and weather associated with the Seasons.</p> <p>Human Body</p> <p>Identify parts of their bodies and compare them with other animals.</p>	<p>Animals – Life Processes</p> <p>Notice that animals have offspring and describe Life Cycles.</p> <p>Describe the basic needs of animals for survival.</p>	<p>Light</p> <p>Understand how shadows are formed.</p> <p>Notice patterns in the changing shape of shadows.</p>	<p>Sound</p> <p>Associate sound with something vibrating and describe how the vibration travels to the ear.</p> <p>Find patterns between pitch or volume and the object that made the sound.</p> <p>Recognise that sound gets fainter the further it travels from its source.</p>
Autumn	<p>Seasonal Observations</p> <p>Noticing changes to their physical environment in each season.</p>	<p>Senses</p> <p>Identify parts of the body associated with the 5 senses and investigate how we use our senses.</p>	<p>Animals</p> <p>Describe the importance for humans for exercise, eating the right amount and different types of food, and hygiene.</p>	<p>Rocks</p> <p>Compare and group different types of rocks on their appearance and physical properties.</p> <p>Describe in simple terms how fossils are formed.</p>	<p>Electricity</p> <p>Identify appliances that use electricity.</p> <p>Construct simple series circuits and name the basic parts.</p> <p>Recognise common conductors and insulators.</p>
Spring	<p>Animals</p> <p>Life cycles & babies.</p> <p>Name and sort animals from around the world.</p> <p>Identify and name different parts of animals.</p>	<p>Identifying Materials</p> <p>Distinguish an object from the material it is made from.</p> <p>Name a range of basic materials.</p>	<p>Materials</p> <p>Compare the suitability of materials for particular uses.</p> <p>Find out how the shapes of solid objects can be changed by bending, squashing, twisting or stretching.</p>	<p>Forces</p> <p>Compare how things move on different surfaces.</p> <p>Notice that forces need contact between 2 objects, except magnetic force.</p>	<p>States of Matter</p> <p>Compare and group materials based on whether they are solids, liquids or gases.</p> <p>Observe that some materials change state when they are heated or cooled.</p>

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Spring 2	Minibeasts Life cycles. Minibeast hunting and identifying. Naming insect body parts	Properties of Materials Describe simple physical properties of materials. Compare and group materials based on their properties.	Plant Growth Describe how seeds and bulbs grow into mature plants. Identify the requirements of plants for healthy growth.	Magnets Notice that magnets attract & repel, and which materials are attracted to magnets. Describe magnets as having 2 poles and predict whether they will repel or attract.	States of Matter Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.
Summer 1	Plant Growth Plant seeds and look after plants around the school. Notice plant growth and begin to name some of the plants and trees.	Plants and Growth Identify and name common wild and garden plants, including trees. Describe the basic structure of plants, including trees.	Living things and Habitats Identify different types of habitats and describe how animals are suited to the habitat in which they live.	Skeletons Identify that humans and other animals have skeletons and muscles for support, movement and protection. Compare the skeletons and structures of different animals.	Digestion and Teeth Describe the simple functions of the parts of the digestive system. Identify different types of teeth in humans. Construct & interpret food chains identifying producers, predators & prey.
Summer 2	Forces Pushes and Pulls using toys, bikes and scooters. Investigate 'what goes up, must come down'	Animal Classification Group animals as fish, birds, mammal, amphibians or reptiles. Identify a variety of carnivores, herbivores and omnivores.	Living things and Habitats Describe how animals obtain their food from plants and other animals, and investigate simple food chains.	Plants Describe the functions of the parts of plants. Describe the part the flower plays in pollination, seed formation & dispersal	Living things and Habitats Group animals in vertebrate and invertebrate groups. Use classification keys to identify living things in their local and wider environments.