

North Denes Primary School: Science Curriculum Overview 2021-2022

	Autumn Term		Spring Term		Summer Term	
	1	2	1	2	1	2
Year 1	Animals, including humans The different parts of my body. Using my senses.	Plants Similarities in plants. Naming the parts of a plant.	Everyday Materials What is a material? Can I sort materials by their properties?	Animals, including humans <i>Plants (continuous)</i> <i>Seasonal changes</i> What do animals eat? Grouping animals by similarities. What are the changes across the 4 seasons?		Everyday Materials Choosing a suitable material for its job. Materials investigations.
Year 2	Living things and their habitats Differences between things that are living, dead and never alive. Do most living things live in habitats to which they are suited?	Uses of everyday materials What is the suitability of materials? How do the shapes of solid objects change?	Living things and their habitats Identify plants and animals in their habitats. Habitats provide the basic needs of different kinds of animals and plants and depend on each other.	Plants How seeds and bulbs grow into mature plants. Plants need water, light and heat to grow.	Animals, including humans How humans grow and stay healthy.	Living things and their habitats Animals obtain their food from plants and other animals. (simple food chains)
Year 3	Animals Including Humans What are the right types and amount of nutrition? Animals & humans get nutrition from what they eat.	Animals Including Humans Skeletons and muscles for support, protection and movement.	Forces – Magnets Explore and compare forces on different surfaces and forces between magnets. Observe how magnets attract or repel each other and attract some materials and not others. Describe magnets as having 2 poles.	Rocks and soils Compare and group together different kinds of rocks. How fossils are formed when things that have lived are trapped within rock. Soils are made from rocks and organic matter.	Light We need light in order to see things and that dark is the absence of light. Light is reflected from surfaces. How shadows are formed and why the size of shadows change	Plants Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.
Year 4	Sound Identify how sounds are made. Recognise that vibrations from sounds travel through a medium to the ear. Explore pitch and volume.	States of matter Explore whether materials are solids, liquids or gases. Observe materials' change of state when they are heated or cooled. Identify the part played by evaporation and condensation in the water cycle.	Animals, including humans Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions, construct and interpret a variety of food chains, identifying producers, predators and prey.		Electricity Identify common appliances that run on electricity. Construct a simple series electrical circuit, naming its basic parts. Recognise some common conductors and insulators.	Living Things and their Habitats Recognise that living things can be grouped in a variety of ways. Use classification to identify and name a variety of living things. Recognise that environments can change and that this can sometimes pose dangers to living things

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Year 5	<p>Properties and changing materials</p> <p>Explore and compare the properties of a broad range of materials. Reversible changes, including evaporating,</p>	<p>Properties and changing materials</p> <p>Explore and compare the properties of a broad range of materials, including relating these to what they learnt in previous years. Explore reversible changes, including evaporating, filtering, sieving, melting and dissolving, recognising that melting and dissolving are different processes.</p>	<p>Earth and Space</p> <p>Explore models of the sun and Earth to learn about day and night. Learn about our solar system and that it has 8 planets. Understand that a moon is a celestial body that orbits a planet.</p>	<p>Forces</p> <p>Explore falling objects and raise questions about the effects of air resistance. Experience forces that make things begin to move, get faster or slow down. Understand the effects of friction on movement.</p>	<p>Living things and their habitats</p> <p>Observe life-cycle changes in a variety of living things. Find out about different types of reproduction, including sexual and asexual reproduction in plants, and sexual reproduction in animals.</p>	<p>Animals including humans</p> <p>Understand stages in the growth and development of humans. Learn about the changes experienced in puberty. Research the gestation periods of other animals and compare them with humans.</p>
Year 6	<p>Evolution and inheritance</p> <p>Find out more about how living things on earth have changed over time. Characteristics are passed from parents to their offspring. Variation in offspring over time can make animals more or less able to survive in particular environments.</p>	<p>All living things</p> <p>Look at the classification system in more detail from Year 4. Introduce the idea that broad groupings, such as micro-organisms, plants and animals can be subdivided. Classify animals into commonly found invertebrates and vertebrates. They should discuss reasons why living things are placed in one group and not another.</p>	<p>Animals including humans</p> <p>Build on learning from years 3 and 4 about the main body parts and internal organs (skeletal, muscular and digestive system) to explore and answer questions that help them to understand how the circulatory system enables the body to function. Learn how to keep their bodies healthy and how their bodies might be damaged – including how some drugs and other substances can be harmful to the human body.</p>	<p>Light</p> <p>Build on the work on light in year 3, exploring the way that light behaves, including light sources, reflection and shadows. Talk about what happens and make predictions.</p>	<p>Electricity</p> <p>Build on work in year 4, by constructing simple series circuits, to help to answer questions about what happens when different components, for example, switches, bulbs, buzzers and motors are added.. Learn how to represent a simple circuit in a diagram using recognised symbols.</p>	<p>Revision/Prep for High school</p>