Bourne Westfield Primary Academy Science Curriculum Overview

					Science	e Curriculum C	verview						
		Aut	umn		Spring				Summer				
EYFS (Nursery Reception)	Naming parts of the body – heads, eyes, legs, fingers, toes -5 senses Bake gingerbread men – using heat to melt the butter Making playdough (ongoing) Talking about seasonal changes – autumnal walk around the school fields gathering leaves etc Planting seasonal vegetables to eat at snack time later in the year. Planting bulbs for spring Talking about seasonal observations naming the seasons and ordering – Autumn leaves, weather. Leaf collecting and observations Talking about how pumpkins grow- seeds to harvest Seasonal observations winter – walk to woods				Talking about seasonal changes – winter – how have the trees changed Freeze water to make ice Talking about seasonal changes – signs of spring Planting bulbs and autumnal vegetables for autumn Nonfiction research Life cycle of a bean plant Make observations of animals that live in the cold – what features do they have to keep them warm and how do they adapt to their environment?				Observing mini beasts and categorising them Life cycle of a butterfly and frog Planting sunflowers and seasonal vegetables and fruit Radishes, lettuce, carrots, pumpkins Making Ice cream – looking at changes in ingredients freezing Talking about seasonal changes – signs of summer o Transport topic – which mode of transport is fastest? Forces- pushing/friction Paper Plane flying – which travels the furthest? Experimenting with ramps and vehicles Seasonal observations- Spot signs of summer and discuss their own summer memories and experiences. What has been growing?				
	Understanding the World ELG - The Natural World (amongst a broader curriculum) Using our senses, materials, food and farming, seasonal changes; animals and plants; changes of state; forces; life cycles and habitats Characteristics of learning: Playing and Exploring, Active Learning, Creative and Critical thinking- linking to Enquiry and working Scientifically												
Year 1	Animals inc Parts of the hu	iluding Humans iman body & senses biology	Recap of observations across the four seasons; describe weather to do with seasons; length of days		Everyday Materials Naming materials, properties of everyday materials; comparing and grouping materials Chemistry		Light Sources of light; what makes it dark? Sun safety Physics		Plants Plants & flowers around us; How do plants grow from a seed? Biology		Animals including Humans Identifying, describing and comparing fish, reptiles, birds, mammals and amphibians; carnivores, herbivores and omnivores Biology		
	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	
Year 2	Living Things & Their Habitats Food chains, exploring living, dead and never alive. Understanding habitats and microhabitats Biology Scientific enguiry Working scientifically		Animals including Humans Growth and basic needs including exercise, healthy eating and staying clean Biology Scientific enquiry Working scientifically		Materials Recap names and properties. Functions of different materials Chemistry Scientific enquiry		Materials Changing the shape of objects- applying a force Physics Scientific enquiry Working scientifically		Plants How seeds and bulbs grow into mature plants. Find out how and describe how plants need water, light and a suitable temperature to grow and stay healthy. Biology Scientific enquiry Working scientifically		Plants How seeds and bulbs grow into mature plants. Find out how and describe how plants need water, light and a suitable temperature to grow and stay healthy. Biology Scientific enquiry Working scientifically		
Year 3	C C C C C C C C C C C C C C C C C C C	Cluding Humans mals have skeletons and poport and protection	O Animals inc Understanding anir muscles for sup	Q () () () () () () () () () (Rocks, I Identify and compa	Fossils and Soil are different kind of rocks by scribe how fossils and soils are formed.	Forces and n everyday objects	d Magnets using magnetism. vsics	Functions of parts and growth. Life cy	Plants and requirements for life cle of flowering plants and tation of water.	Understanding h interlinked, reflection	.ight ow light and sight are n and the dangers of the Sun.	
	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Biology Working scientifically	Scientific enquiry	Working scientifically		Biology Working scientifically		Working scientifically	
Year 4	The Digestive Sy B Scientific enquiry	stem, including teeth Biology Working scientifically	Sound Understanding how sound travels in waves, understanding vibrations and patterns linked to pitch. Physics Scientific enquiry Working scientifically		Electricity Switches, circuits, switches and common conductors and insulators. Physics Scientific enquiry Working scientifically		Scientific enquiry Working scientifically		States of Matter 2 Solids, liquids and gases and changing state, The Water Cycle Chemistry Scientific enquiry Working scientifically		Living Things & Their Habitats Recognise the different ways living things can be classified, using classification keys. Understanding how changes in the environment can pose dangers to animals. Biology Scientific enquiry Working scientifically		
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Year 5	Properties and Changes of Materials Comparing and grouping materials, building on the knowledge of solid, liquid and gas. Chemistry		Properties and Changes of Materials Using testing to explore uses of materials and understanding changes in state, reversible changes and filtration. Chemistry		Earth & Space The Earth's movement in space: days, years, seasons. Physics		Forces Different types of forces and the effects of air resistance, water resistance and friction. Exploring mechanisms including levers, pulleys and gears. Physics		Living Things & Their Habitats Life Cycles and comparisons Biology		Animals including Humans Reproduction and changes Explore the changes and developments that occur as humans age. Biology	
	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically
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Year 6	Evolution & Inheritance Understanding how living things change over time. Recognising how offspring vary and how animals adapt over time. Biology		Living Things & Their Habitats Classification of living things based on similarities and differences. Biology		Electricity Understanding variation in circuits and symbols related to electrical components Physics		Animals including Humans The Circulatory System and impact of lifestyle on the body's function Biology		Light Understanding how light travels, forms the shape and size of shadows and how the eyes process images. Physics		Revision of Content based on Teacher Assessment	
	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically	Scientific enquiry	Working scientifically

Working scientifically -skills children need to acquire through practise.

