

Intent

At Beechwood Primary School, intend to provide learning opportunities in Science which encourage children to:

- ask relevant questions and use these to plan scientific enquiries, recognising and controlling variables where necessary;
- set up practical enquiries safely, using appropriate techniques, apparatus and materials during both fieldwork and class work;
- gather, record, classify and present data in a variety of ways, using a range of scientific equipment of increasing complexity;
- become 'scientific thinkers' by developing attitudes of curiosity, co-operation, perseverance, responsibility and independence;
- use the data gathered to make sense of evidence, test out hypothesis, find patterns in observations and evaluate processes and outcomes;
- use systematic and logical reasoning, solve problems and communicate their findings;
- develop understanding on how their actions effect the environment around them;
- develop the skills to work in a variety of ways including, working together in groups, independently, in partners and as a whole class;
- have an enjoyable experience of science so that they will develop a deep and lasting interest and become inspired to follow this path further

Each topic starts with a pre-learning task, allowing staff to see what children already know, what they are interested to learn and what misconceptions they have. Activities are the planned, weaving the RESPECT values throughout each session. Learning Challenges are introduced in most sessions, encouraging children to take an active role in their learning, but also to help learning becoming sticky!

	Autumn 1		Autumn 2	Spring 1	Spring 2		Summer 1		Summer 2	
Year 1	Materials Why	Seasons	Animals inclu	ding Humans	Seasons	Plants		Seasons	Seasons	Working
	aren't all objects	How	How are humans and animals		How	Which plants and trees How does		How does	scientifically	
	made from the	does the	similar?		does the	would we find in our the		the	the	
	same material?	weather			weather	school ground	ls?	weather	weather	
		change			change			change	change	
		through			through			througho	througho	
		out the			out the			ut the	ut the	
		year?			year?			year?	year?	
Year 2	ear 2 Animals including Humans Do all animals need the same thing			Living Things and their Habitats			Plants		Materials	
				How are living things s	uited to the habitat in		Can plants grow on		What mate	rials do we
	survive? which they live?					beaches?		use in our everyday lives		
									and how can these be	
								changed?		
Year 3	ar 3 Rocks What do rocks tell us about the way the Earth is formed?		Animals	Plants	Forces and Magnets How are magnets useful in our everyday lives?		Light Why are shadows different shapes and sizes?		Working scientifically	
			including	What makes plants						
			Humans	and flowers grow and						
				flourish?						

Year 4	Living Things and their	How can Usain Bolt move so quickly? Animals	Sound	States of Matter	Electricity	Working scientifically
	Habitats Are all living things the same?	including Humans What happens to the food we eat?	How do vibrations help us to hear?	How can water be in 3 different states?	How does electricity work?	
Year 5	Space Is the Earth the centre of the Solar System?	Forces How the forces around us affect our everyday lives?	Materials What are the properties of materials and how can we change their state?		Animals including Humans Do all animals and plants start life as an egg?	Working scientifically
Year 6	Light How does light help us to see?	Animals including Humans What would a journey through your body look like?	Evolution and Inheritance Have we always looked like this?	Electricity How can we harness electricity?	Living Things and their Habitats Could Spiderman really exist?	Working Scientifically