

Overview for Science

At Beechwood Primary School, we aim 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	Materials	Seasonal Changes	Plants	Animals, including humans	Animals, including humans
Year 2	Animals, including humans	Animals, including humans	Living things and their habitats	Living things and their habitats	Materials	Plants

Year 3	Animals, including humans	Light	Rocks	Plants	Forces and Magnets	Forces and Magnets
Year 4	Living things and their habitats	Animals, including humans	Sound	States of matter	Electricity	Electricity
Year 5	Earth and Space	Forces	Animals including humans	Materials	Materials	Living things and their habitats
Year 6	Evolution and inheritance	Animals, including humans		Living things and their habitats	Light	Electricity