

Science

At Westlea Primary School we believe that a high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Our intent is to spark children's curiosity, developing a thirst of learning and finding out why things happen in the way they do. The teaching of Science at Westlea follows the objectives laid out by the National Curriculum.

Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Science in our school is about developing children's ideas and ways of working that enable them to make sense of the world in which they live through investigation, as well as using and applying process skills. Routes to employment in Science will be highlighted as the children learn, opening their eyes to the possibilities of future jobs. The staff at Westlea Primary school ensure that all children are exposed to high quality teaching and learning experiences, which allow children to explore their outdoor environment and locality, thus developing their scientific enquiry and investigative skills. They are immersed in scientific vocabulary, which aids children's knowledge and understanding not only of the topic they are studying, but of the world around them. We intend to provide all children regardless of ethnic origin, gender, class, aptitude or disability, with a broad and balanced science curriculum.



Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Science					
1	Seasonal Changes on going unit					
	Animals including humans: parts of the body & senses; explore what humans need to stay healthy Everyday materials: identify & name materials; distinguish between an object and the material it is made from		Everyday materials: describe the physical properties of materials; compare the suitability of materials for particular uses		Plants: investigate plants found in the local environment; name the parts of flowering plants, including trees Animals: identify & name animals; classify animals; identify carnivores, herbivores and omnivores; name the parts of animals	
2	Plants – Requirements for Growth	Animals Including Humans: Basic needs of animals & offspring	Living Things and Their Habitats	Living Things and Their Habitats : Simple food chains & habitat	Uses of Everyday Materials: sorting and classifying materials	Identify and compare uses of different materials
3	Rocks and soils		Magnets and forces	Lights and shadows	Plant germination and growth	Animals including humans
4	States of matter	Digestion	Sound	Electricity	Living things and their habitats	
5	Properties and changes of materials		Earth and space	Forces	Life cycles of plants and animals	Changes in Humans
6	Animals including Humans: Circulation	Light	Electricity		Living things and their habitats – Classification	Evolution and Inheritance