

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 follow 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 | | Everyday materials | | Plants | |
| 1/2 | Seasonal Changes on going unit | | | | | |
| | Animals including humans | Everyday materials | Everyday materials | | Plants | Animals including humans |
| 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 | |