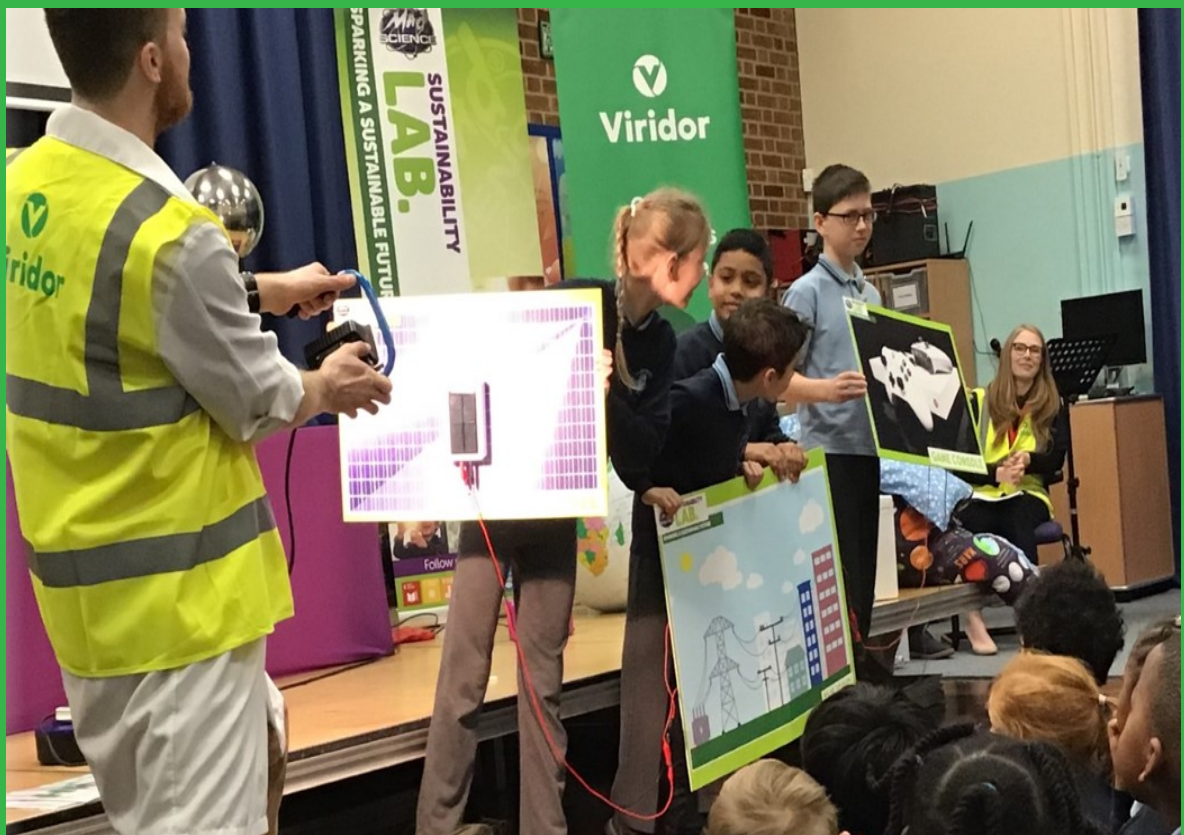




Science

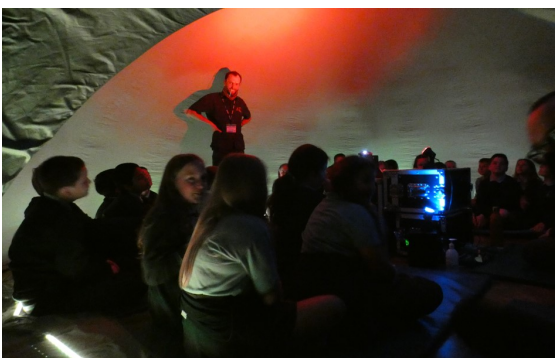


Curriculum Statement

Science at Our Lady intends to equip children with the knowledge, methods, processes and uses of science that will enable them to understand the physical and natural world around them.

What does Science look like at Our Lady of the Rosary?

- Scientific knowledge is embedded and truly grasped through systematic and open ended scientific enquiry that is creatively and rigorously planned, executed and recorded.
- Scientific literacy is paramount in understanding and embedding scientific concepts therefore scientific vocabulary is taught to and confidently used by all staff.
- When children's curiosity is ignited, scientific concepts can truly be understood. Creative, knowledgeable and hands on teaching provides children with the ability to rationally explain scientific concepts opens children's minds to the world around them.
- A range of workshops and trips take place across the year groups to help cement knowledge and put science into a real-world context.
- Pupils learn of the contribution scientists have made in helping us to understand and shape the world we live in, and inspire them to be the next generation of scientific thinkers through developing resilient and creative problem solvers.





Key characteristics of Science at Our Lady

- ♦ To foster curiosity and enjoyment in learning about the physical and natural world around us.
- ♦ To provide children with the breadth of scientific vocabulary to adequately explain the core scientific concepts and principles that underpin our world.
- ♦ Opportunities to learn how to work scientifically and independently and creatively plan and execute scientific enquiry in order to explore scientific theory.
- ♦ Children have the confidence to analyse results using sound scientific knowledge and evidence to underpin a conclusion.
- ♦ The ability to select the appropriate tools to gather data when working scientifically and the most appropriate methods of recording findings.



Curriculum Coverage

Year group	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year R	Senses and body Seasons	Light and dark	Materials and forces	Growth / Seasons	Animals	World around us
Year 1	Materials and properties. Links to DT making, Teddy Bears.	Seasonal Changes: Autumn Animals including Humans- Human body and senses.	Animals including Humans Seasonal changes: Winter	Animals including Humans Seasonal changes: Spring	Plants Working scientifically	Plants Working scientifically Seasonal Changes: Summer
Year 2	Animals, including humans. What is a living thing? Humans basic needs for survival: Healthy eating, exercise and germs. Links to Florence Nightingale and hospitals. Visit from Dentist. Working scientifically	Animals, including humans. Growth and offspring (use whole class reading opportunities) What is a living thing? To explain how you know when something is living, dead, has lived or never lived	Living things and their habitats Including food chains and minibeasts – use whole class reading opportunities) Working scientifically	Materials and their properties. Links to DT making cars or an aeroplane. Read a plastic story: A planet full of plastic. Working scientifically	Plants and Living things and their habitats Plants and their habitats. Working scientifically	Living things and their habitats Growing plants Working scientifically
Year 3	Rocks and Soils Working scientifically	Forces and Magnets Working scientifically	Light Working scientifically	Plants Working scientifically	Plants	Human and lifestyles Working scientifically
Year 4	Animals, including Humans (digestive system) Working scientifically	Animals, including Humans (teeth) Animals, including Humans (Food chains) Working scientifically	States of Matter. Working scientifically	Living things and their habitats Working scientifically	Sound Working scientifically	Electricity Working scientifically
Year 5	Living things and their habitats- Life cycles Working scientifically	Properties and changes of materials Working scientifically	Properties and changes of materials Working scientifically	Earth and Space Working scientifically	Forces Working scientifically	Animals including humans Working scientifically
Year 6	Evolution Working scientifically	Electricity Working scientifically	light Working scientifically	Animals including humans Working scientifically	Living things and habitat Working scientifically	Review and revise
Review and investigations Working scientifically						

