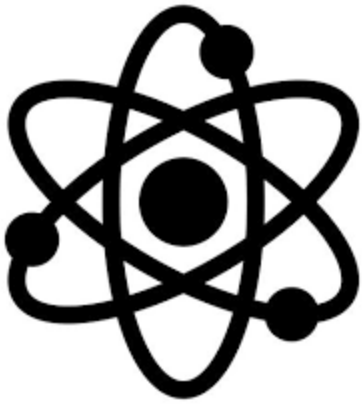
St Gregory's Catholic Primary School

'Loving and Learning'

The St Gregory's Curriculum

Science



Colossians 1: 15-17 *The Son is the image of the invisible God, the firstborn over all creation. For in him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities; all things have been created through him and for him. He is before all things, and in him all things hold together.*

Catholic Social Teaching (CST): Stewardship. Human Dignity.

Catholic School Pupil Profile: Curious. Grateful. Learned.

Curriculum Intent for Science

It is our intention to develop in our children, a lifelong curiosity and interest in the sciences. We intend for children to have the opportunity to learn through varied systematic investigations leading them to ask and answer scientific questions about the world around them. As children progress through the year groups, they build on their skill in working scientifically, as well as their scientific knowledge and understanding.

Curriculum Implementation for Science

At St Gregory's science is taught thematically with each year group covering five themes during an academic year. Staff follow the STEM planning documents to provide children with the most creative, engaging and theoretical lessons every week. At St Gregory's, teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in science.

The acquisition of key scientific knowledge is an integral part of our science lessons. The progression of skills for working scientifically are developed through the year groups and scientific enquiry skills are of key importance within lessons.

Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers. This curiosity is celebrated within the classroom. Planning involves teachers creating practical, engaging lessons with opportunities for precise questioning in class to test conceptual knowledge and skills, and assess children regularly to identify those children with gaps in learning.

Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career, and new vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in keeping with the topics.

Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning. Through enrichment days, such as 'science week', we promote the profile of Science and allow time for the children to freely explore scientific topics.

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Animals Including Humans	Seasonal Changes (A/W)	Plants	Structures and Materials	Theme Week	Living Things and their Habitat
1	Animals Including Humans	Everyday Materials	Light and Dark	Plants	Theme Week	Sound
2	Living Things and their Habitat	Materials	Forces	Electricity	Theme Week	Animals Including Humans
3	Plants	Rocks	Animal Including Humans	Forces and Magnets	Theme Week	Light
4	States of Matter	Animals Including Humans	Electricity	Living Things	Theme Week	Forces Friction
5	Living Things and Their Lifecycles	Properties and Changes of Materials	Sound	Earth and Space	Theme Week	Animals Including Humans
6	Evolution and Inheritance	Forces	Electricity	Micro-Organisms	Theme Week	Light

Curriculum Impact for Science

At St Gregory's we aim to produce Scientific learners who are growing to be...

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End of KS2 Impact- Science