

St Anne Line Catholic Infant School

part of the wider Christus Trust, Multi Academy Trust

Science Policy



Love Learn Pray

Vision

At St Anne Line Catholic Infant School, our mission to **Love, Learn, Pray** is at the heart of everything we do. Rooted in our Catholic faith and guided by our motto, ***En Magna Constantia*** – *With Great Determination* – we nurture a sense of awe and wonder in the world God created. Science plays a vital role in helping our pupils appreciate and care for the world, encouraging them to explore, question and celebrate the intricacies of life.

Aims

This policy is set out to ensure consistency in the teaching and learning of Science across the school so that pupils are equipped with the ability to explore, discover and investigate. These first-hand experiences enable them to better understand the world they live in. We aim to ensure such experiences are appropriate, relevant, challenging and satisfy the children's curiosity.

We aim to:

- Build on the children's natural curiosity.
- Teach scientific knowledge and key vocabulary.
- Develop scientific skills and investigative attitudes.
- Inspire wonder in the world around them through reflection and discovery.
- Encourage respectful communication using scientific language.
- Support the evaluation of findings and the development of explanations.

The Intent, Implementation and Impact of Our Science Curriculum

The Intent

At St Anne Line Catholic Infant School, we believe a high-quality Science education provides the foundations for understanding God's creation through the disciplines of biology, chemistry and physics. Our carefully designed curriculum reflects our Catholic values by fostering a love of learning, inspiring awe at the natural world, and encouraging stewardship and care of God's earth.

With **Love**, we nurture children's natural sense of wonder and respect for all living things.

Through **Learning**, we develop their scientific thinking, encouraging curiosity, creativity, and a pursuit of knowledge.

In **Prayer**, we take time to reflect, give thanks, and appreciate the beauty and complexity of creation.

Our motto, ***En Magna Constantia***, inspires us to approach Science with determination, perseverance and resilience, building the foundations for lifelong learning.

We intend to provide a bespoke curriculum that is accessible to all pupils regardless of background or ability, with rich and meaningful learning experiences that link to real life and faith-based values.

The Implementation

In ensuring high standards of teaching and learning in Science, we implement a progressive, inclusive and engaging curriculum.

Teachers plan collaboratively, ensuring curriculum coverage, differentiation, and that the values of **Love, Learn, Pray** are embedded throughout. We link Science with the wider curriculum where appropriate, and our Forest School sessions, and reflective prayer opportunities in our outdoor spaces.

Children learn to work cooperatively, share resources respectfully, and value each other's ideas – developing not only their scientific skills but also a moral and spiritual understanding of the world.

The Impact

Our approach to Science ensures that children:

- **Love** learning about the world and show care for the environment.
- **Learn** to think critically, ask questions and apply scientific methods to new situations.
- **Pray** and reflect, appreciating the wonder of creation and their role in protecting it.

Children will leave St Anne Line with:

- A secure knowledge and understanding of Science appropriate for their age.
- Developed scientific enquiry and investigative skills.
- A rich vocabulary to articulate their understanding.
- The confidence, aspiration, and determination inspired by ***En Magna Constantia*** to succeed in their future studies and lives.

Procedures and Practice

Roles and Responsibilities

All responsibilities outlined remain the same, with the additional understanding that staff model our Catholic values throughout all roles, encouraging spiritual growth alongside academic success.

How SMSC and British Values are Integrated

The existing text is well-aligned with the values of **Love, Learn, Pray** and can be naturally supplemented:

- **Spiritual:** Science is an opportunity to **pray**, reflect, and marvel at God's creation.
- **Moral:** Pupils consider the impact of scientific advancements with **love and compassion** for others.
- **Social:** Pupils **learn** to collaborate and respect diverse views, fostering community and fellowship.
- **Cultural:** By celebrating global contributions to Science, we show **love** and **respect** for all cultures.

Planning

Science is planned with a focus on ensuring **rigorous, sequenced learning** that enables progression over time. Teachers work collaboratively to plan a curriculum that is **well-structured**, builds on **previously taught learning**, reviews what children already know, and introduces **new concepts** to strengthen and deepen children's foundational scientific skills.

Planning allows for opportunities to undertake a variety of scientific enquiries and investigations that lead children to discover answers to key questions and grow in both knowledge and curiosity. In Key Stage One, the **"Working Scientifically"** objectives are woven throughout units, alongside year-specific knowledge objectives.

In the **Early Years Foundation Stage**, teachers ensure that children gain **first-hand experiences** to investigate, make observations, and discover knowledge about the world around them. Planning here focuses on **scaffolding learning** so that children can raise their own questions and begin to form ideas, laying strong groundwork for future scientific thinking.

All planning is underpinned by the values of **Love, Learn, Pray**, and reflects our belief in learning with **purpose, progression, and reflection**. Guided by our school motto, ***En Magna Constantia***, teachers plan engaging, challenging, and meaningful Science experiences that allow children to learn with great determination and joy.

Teaching

Teachers model perseverance and determination, reflecting our school motto, ***En Magna Constantia***, helping children to overcome challenges and develop resilience in scientific enquiry. Lessons are enriched by discussions, prayerful reflections, and links to Catholic social teaching where appropriate. Science in EYFS is organised to encourage child-led exploration and awe, which aligns naturally with **Love, Learn, Pray**. We nurture scientific minds in a setting where wonder is welcomed, ideas are celebrated, and learning is a joyful experience.

Parent Partnership

By involving families in science fairs and encouraging home learning, we invite the whole school community to **love, learn, and grow in faith** together. Opportunities to reflect on creation at home strengthen both scientific and spiritual development.

Assessment, Monitoring and Review

Assessment continues to support children's progress both academically and spiritually. The Science coordinator ensures that monitoring also reflects how our values are embedded in Science lessons and celebrated in pupils' work.

Conclusion

At St Anne Line Catholic Infant School, our Science curriculum is more than a subject – it is an invitation to discover the world with **love**, seek truth through **learning**, and honour creation through **prayer**.

Through Science, our children live out our school motto: ***En Magna Constantia*** – *With Great Determination* – as they grow in faith, knowledge, and understanding of God's incredible world.