OUR LADY IMMACULATE CATHOLIC PRIMARY SCHOOL

At Our Lady Immaculate Catholic Primary School, we strive to thrive by being ready, respectful and kind every day. We do our very best in all that we do, for the glory of Christ, knowing that:

"With God all things are possible"

OLI Science Policy

Date	Review Date	Coordinator
Summer 2026	**Autumn 2029**	**Sophie Worth**

Headteacher:	Sophie Gibbs
Chair of Governing Body:	Catherine Squires

Vision

At Our Lady Immaculate Catholic Primary School, we strive to thrive in science by being ready to learn, respectful of God's creation, and kind in the way we work with others. Through exciting, practical and engaging learning experiences, our children develop curiosity, ask questions, and explore the world around them with confidence and wonder. We inspire all pupils to think scientifically, discover how things work, and use their knowledge to make sense of the world. By developing their understanding of biology, chemistry and physics, children are empowered to achieve their very best and recognise that science helps us to appreciate and care for the amazing world God has given us.

"With God, all things are possible." (Matthew 19:26)

Teaching aims:

- to develop the natural curiosity of children about the world around them;
- to develop questioning and enquiring minds through a range of enjoyable and interesting experiences;
- to help children develop the skills to make systematic enquiries;
- to provide opportunities for children to apply theoretical ideas to the solving of practical problems;
- to enable children to develop an increasing attention to accuracy;
- to foster a positive attitude to science and increase pupils' understanding of how science is used in the wider world;
- to provide a range of relevant experiences allowing pupils to acquire knowledge, skills and understanding in the key areas of Scientific Enquiry, Life Processes and Living Things, Materials and their Properties, and Physical Processes through a variety of teaching and learning strategies;
- to develop the accurate use of 'tiered' scientific vocabulary;
- to meet the needs of each child so that they will reach their potential:
- to engender a sense of awe and wonder at Gods creation through science.

What we teach:

Planning is a process in which all teachers are involved. Teachers plan a sequence of lessons following the National Curriculum objectives. To support their planning, teachers have access to Twinkl Science resources.

We believe that all children have the right to access the science curriculum. In order to ensure that all children achieve to the best of their ability, it may be necessary to adapt the delivery of science for some pupils.

We teach science to all children, whatever their ability. Science forms part of the national curriculum ensuring we provide a broad and balanced education for all children. Through the teaching of science, we provide opportunities that enable all pupils to make progress. We do this by setting suitable challenges and responding to each child's individual needs.

- We teach our science curriculum through Twinkl Science this is progressive throughout the whole school (see progression map guidance and progression map)
- Topics are focused on the knowledge and skills stated in the National Curriculum so that children have the opportunity to achieve depth in their learning.
- Science is taught in weekly lessons in KS1 and KS2.
- Scientific enquiry is built across each unit of work to ensure links to the knowledge and skills the children are developing.
- Children are taught how to use resources safely and appropriately. Teachers decide, based on the age and stage of their classes, which resources are appropriate for the children to use.
- Teaching supports our children with questioning and higher order thinking.

Impact:

- Children are enthusiastic scientists.
- Ask and answer scientific questions independently.
- Work scientifically and explore scientific experiments.
- Explore confidently to find answers.
- Are able to retain and use scientific specific vocabulary.
- Develop higher order thinking skills.
- Children can express how science may be used in their future careers.
- Understand how science aligns with real life jobs in the wider world.

Health and Safety:

Primary Science is very safe, as chemicals are used only very occasionally and the ones which are recommended for use have no severe hazards. There are some hazards, associated with:

• sharp objects
• flames
• chemicals (including 'kitchen' chemicals)
• animal and plant specimens
• micro-organisms

Sharp objects, such as tools are used under close supervision and they are mainly used in upper KS2.

Tea lights may be used by the teacher for heating but must be in a sand tray with children observing at a safe distance.

Care is taken after handling animals and plants to look out for signs of allergies developing but this is rarely a problem in primary teaching. Animals should be obtained from a reliable source and due hygiene observed when handling them.

Care must be taken after handling animals and plants to look out for signs of allergies. Animals should be obtained from a reliable source and due hygiene observed when handling them.

Simple bread moulds can be made with bread enclosed in cling film or sealed plastic bags.