



Loving minds ♥ hearts ♥ hands.

Science Policy 2026-2027

Article 28

You have the right to education.

Article 29

You have the right to education which tries to develop your personality and abilities as much as possible and encourages you to respect other people's rights and values and to respect the environment.

Approved by: Headteacher

Date: 1/9/26

Last reviewed on: 1/9/26

Next review due
by: 1/9/27

Mission Statement

In God's family, we grow and learn in love, hope and faith.

Intent

Science enables our children to be critical thinkers as it develops their natural curiosity and encourages respect for living organisms and the physical environment whilst providing opportunities for critical evaluation of evidence. Children are encouraged to be advocates for change increasing their knowledge and understanding of our world; developing skills associated with Science as a process of enquiry. It also encourages independence and resilience with a recognition of the importance of Science in every aspect of daily life.

The aims of science teaching at St Ambrose RCPS are to enable pupils to:

- Develop scientific knowledge and conceptual understanding through the disciplines of biology, chemistry, and physics.
- Develop understanding of the nature, processes, and methods of science through different types of scientific enquiry.
- Be equipped with the scientific knowledge required to understand the uses and implications of science today and for the future.
- Ask questions and explore ideas through observation, investigation, and experimentation.
- Develop curiosity, resilience, creativity, and independence in learning.
- Use scientific language accurately and confidently.
- Understand how science impacts everyday life and the wider world.
- Appreciate their responsibility as stewards of God's creation and understand the importance of caring for the environment.

Implementation

Our Science curriculum has been designed around the requirements of the National curriculum. We have carefully selected the scheme White Rose Science to support the curriculum needs ensuring appropriate challenge and progression is provided across the year groups. This scheme is used in conjunction with other supporting resources to ensure full curriculum coverage and revisiting opportunities. We include a range of activities across the curriculum, taking into account other curriculum areas, to provide where possible a connected curriculum to enhance learning beyond the weekly science lesson.

Enrichment opportunities are utilised throughout the year to develop and enhance learning further.

The curriculum that we have developed, ensures that whole school science skills are mapped logically and sequentially and also that each class teacher understands what, why and how their individual lesson content fits into the overall science curriculum. Working scientifically is also carefully mapped to ensure full coverage.

Enquiry questions are used to enable the children to achieve their objective thus allowing them to find out for themselves and develop critical thinking skills. This cycle ensures that children learn the National Curriculum content and do so through applying the appropriate Working Scientifically strand. Children are encouraged to ask their own questions and given opportunities where possible to use their scientific skills to research the answer.

Children are taught explicitly about assessing risks when carrying out a range of science activities. Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed understanding and safety.

Teachers will:

- Plan lessons using the National Curriculum objectives.
- Clearly identify intended learning outcomes.
- Build on prior knowledge and experiences.
- Use questioning to challenge and extend thinking.
- Provide opportunities for pupils to work scientifically.
- Encourage discussion and the use of scientific vocabulary.
- Use a variety of teaching approaches, including:
 - Practical investigations
 - Observation over time
 - Research using secondary sources
 - Pattern seeking
 - Identifying, classifying, and grouping
 - Comparative and fair testing
 - Problem-solving activities
- Adapt teaching to meet the needs of all learners.

Pupils will be encouraged to:

- Ask scientific questions.
- Make predictions.
- Carry out investigations safely.
- Record findings appropriately.
- Interpret results and draw conclusions.
- Evaluate evidence and explain their reasoning.

Teachers regularly check children's understanding through their practical and recorded work, asking effective questions to understand children's Scientific knowledge as well as their Working Scientifically skills. Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout their time at school and that these skills are both meaningful and purposeful for children. Children are given effective feedback on how to improve their enquiry. They are taught how to critically evaluate their Working Scientifically skills to see where further improvements can be made.

Working Scientifically skills are taught and developed throughout Key Stages 1 and 2.

Pupils will learn to:

Key Stage 1

- Ask simple questions.
- Observe closely.
- Perform simple tests.
- Gather and record data.
- Use observations to answer questions.

Key Stage 2

- Plan different types of scientific enquiries.
- Make systematic observations and measurements.
- Gather, record, classify, and present data.
- Report findings using scientific language.
- Use evidence to support conclusions.
- Identify patterns and relationships.
- Evaluate investigations and suggest improvements.

All practical science activities must be carried out safely.

Teachers are responsible for:

- Conducting risk assessments where necessary.
- Following school health and safety procedures.
- Ensuring pupils understand safe working practices.
- Supervising practical work appropriately.
- Using equipment according to guidance and manufacturer instructions.

Any accidents or concerns must be reported in line with school procedures.

Impact

The impact of the Science Curriculum can be seen in the fun, engaging, high-quality science education provided that gives the children foundations for which to understand the world we live in. More importantly the way in which children can articulate what they have learnt in Science, and what they have discovered, demonstrates our children's views and enjoyment of the subject which is further evidenced through pupil voice.

Pupils may record learning through:

- Written work
- Diagrams and labelled drawings
- Tables and charts
- Graphs

- Photographs
- Digital media
- Investigation write-ups

Teachers will ensure that recording methods are appropriate to the age and stage of development of pupils.

Assessment is used to inform teaching, monitor progress, and identify next steps.

Formative Assessment

Teachers will use:

- Questioning
- Observation
- Discussion
- Retrieval activities
- Pupil self-assessment
- Marking and feedback
- Practical investigations

Summative Assessment

Teachers may use:

- End-of-unit assessments
- Knowledge quizzes
- Assessment tasks linked to curriculum objectives

Assessment information will be used to:

- Monitor attainment and progress.
- Inform planning.
- Identify pupils requiring support or challenge.
- Report achievement to parents and carers.