



# Christ Church CE Primary School

'Train up a child in the way he should go and  
when he is old, he will not depart from it.' Proverbs 22:6

## Science Policy for Christ Church Primary C of E Primary School

'We value all children as unique 'Children of God' and welcome them into our safe, loving and supportive Christ Church family. We endeavour to use nurture to encourage individuals to flourish and aspire to reach their God given potential. We rejoice in our rich diversity and our broad, balanced curriculum provides opportunities for all to achieve excellence, open minds and inspire dreams both now and the future'

### Introduction

This policy sets out Christ Church CE's aims and strategies for the successful delivery of Science. This policy should be read in conjunction with other relevant school policies such as the Safeguarding, Equal Opportunities, Curriculum, Finance, Teaching & Learning, SEND and Assessment policies. It is based on the new primary curriculum which has been statutory from September 2014. The implementation of this policy is the responsibility of all teaching staff.

### Teaching Science

At Christ Church, we believe that the best science teaching fosters and develops pupils' curiosity in the subject whilst also helping them to fulfil their potential. For our pupils to achieve well in Science, they need to acquire the necessary scientific knowledge and also be able to enjoy the experience of engaging and purposeful scientific enquiry in order to help them to answer scientific questions about the world around them.

The new National Curriculum 2014 states why we teach Science in schools:  
'A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics...Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.'

### Aims

Through high-quality Science teaching, we aim to help our pupils understand how major scientific ideas have played a vital role in society. Moreover, we aim to prepare our pupils for life in an increasingly scientific and technological world.

### We aim to do this by:

Delivering high quality, interesting and engaging Science lessons;

Using scientific contexts to develop and consolidate cross curricular skills in Literacy, Maths and ICT;

Teaching science in a global and historical context; including the contributions significant scientists;



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Developing and extending pupils' scientific knowledge and understanding;

Developing pupils' ability to work scientifically and involve pupils in planning, carrying out and evaluating investigations;

Developing pupils' scientific vocabulary and ability to articulate scientific concepts clearly and precisely  
(Vocabulary ideas for each topic are saved on the staff drive).

Ensuring that all pupils are appropriately challenged to make good progress in Science.

## **Teaching and Learning**

Teachers plan and deliver high-quality and engaging Science lessons incorporating a range of teaching and learning styles. At Christ Church C of E Primary, teachers will provide opportunities for pupils to:

Learn about science, where possible, through first-hand practical experiences, including opportunities to use the school forest to explore.

Develop their research skills through the appropriate use of secondary sources;

Work collaboratively in pairs, groups and/or individually;

Plan and carry out investigations with an increasing systematic approach as they progress through the school;

Develop their questioning, predicting, observing, measuring and interpreting skills;

Record their work in a variety of ways e.g. writing, diagrams, graphs, tables;

Read and spell scientific vocabulary appropriate for their age.

Be motivated and inspired by engaging and interactive Science displays where applicable, which include key vocabulary and relevant questions.

Learn about science using the outdoor learning environment (especially the forest and surrounding area).

## **Planning**

Science in the Early Years Foundation Stage is planned using the Early Years Curriculum

'Understanding of the World'.

Key Stage 1 and 2 teachers plan Science lessons using the new National Curriculum (2014).

All science lessons have focussed learning objective and clear differentiation to ensure that pupils make at least good progress.



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'Working scientifically' is embedded throughout the areas of learning in Key Stage 1 and 2; this focuses on the key aspects of scientific enquiry which enable pupils to investigate and answer scientific questions.

Areas of learning within Key Stage 1 and 2 ensure that statutory requirements are being covered through the specific disciplines of Biology, Chemistry and Physics.

Please refer to the long term plan for details of the specific areas of learning covered in each year group over the year.

Topic covers for each area have been completed by A. Dunning, so teachers can use these at the start of every new topic to give pupils an overview of the objectives which they will be covering throughout the unit.

## **Assessment**

All teachers should use the 'OTrack' program or paper tick sheets to record pupils achievements in Science and to help them to evaluate the progress which their pupils are making.

In EYFS, teachers assess Science against the 'Development Matters' statements in the 'Understanding of the world' area of the Early Years Curriculum. The statements go from birth through to the Early Learning Goals at the end of Reception.

For formative assessment, teachers use effective Assessment for Learning (AfL) strategies which are used to inform their planning and teaching.

Teachers provide quality feedback to pupils (verbal or written) which clearly identifies how they might need to improve. Teachers need to adhere to our school marking policy when marking Science work.

Children are encouraged to self, peer and group assess work in a positive way.

## **Monitoring**

Planning and work book scrutiny as well as pupil voice questionnaires will be carried out by the Science subject leader and feedback given to teachers at an appropriate time.

### **Monitoring will be achieved through:**

- Work scrutiny.
- Learning walks.
- Observations.
- Pupil and teacher questionnaires
- Reflective teacher feedback.
- Learning environment monitoring.



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## Health and safety

Teachers must plan safe activities for Science and complete a risk assessment if necessary.

Teachers and teaching assistants need to be aware of health and safety procedures when using equipment/food in Science lessons.

Pupils must be aware of the need for personal safety and the safety of others during Science lessons.

## Resources

Science resources are stored in the Science cupboard.

An inventory of resources is kept on the science cupboard door and is updated when new resources are ordered.

The subject leader must be informed of any changes regarding science resources i.e missing or broken resources and/or when new or replacement resources are required.

## Inclusion

All teachers are to ensure that they adopt an inclusive approach to their Science planning and teaching; ensuring that pupils of all abilities and backgrounds have an equal opportunity to make good progress and enjoy Science. Forest schools is a fantastic and practical way for our pupils to achieve in Science.

Signed:

Head Teacher

Date: September 2022

Reviewed: February 2024

Next Review: February 2026