



Baines' Endowed

Church of England Primary Academy

A member of **CTDARI**

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Science Policy

Our mission statement at Baines' Endowed Church of England Primary is:

"With God, nothing is impossible" Luke 1:37

To support our pupils, staff, parents and governors in their quest to achieve the 'impossible', we will teach, guide and nurture our community in the following twelve values:

Generosity, compassion, courage, forgiveness, friendship, respect, thankfulness, trust, perseverance, justice, service and truthfulness.

At Baines' Endowed, we believe that by valuing all God's children and teaching them to learn, develop and grow in the Gospel values, we will allow them the opportunity to believe that, with the help and love of God the Father, God the Son and God the Holy Spirit, they can achieve what they aim to achieve.

WE LOVE SCIENCE

Principles
At Baines' Endowed, Science is good when...

- We are encouraged for our curiosity and will be 'real' scientists.
- We question, predict, test, make, investigate, observe and discuss.
- We explore the 'real' world, explain 'real' life issues, and use 'real' science to solve real-world issues.
- We carry out investigations and observe over time.
- We work together when learning new things.
- We are resilient.
- We learn about and meet real scientists.
- We learn new vocabulary.
- We are challenged.
- When it is hard, we smiling, try, making messy and messy!
- We are empowered to lead.

VISION

E=mc²

'For with God, Nothing is Impossible'

Our vision is to prepare all children for the 'real world' through high quality teaching and learning. Achieved by creating excitement and wonder through discovery, investigations and real life experiences, linking science to the 'real world' by removing the image of the 'stereotypical scientist'. ALL children will be equipped to have the confidence and aspirations to pursue a 'science' based career.

Intent



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Science at Baines' is a rich and varied subject, underpinned by the essential skills of 'working scientifically', and it is taught on a weekly basis as a core subject.

The intent of Science at Baines' is:

- *To enable all children to learn, and develop their skills, to the best of their ability.*
- *To promote a positive attitude towards learning, so that children enjoy coming to school, and acquire a solid basis for lifelong learning.*
- *To motivate pupils by arousing a sense of curiosity and wonder.*
- *To develop key drivers of spirituality, enquiry and emotional awareness through a subject that is relatable in everyday life.*
- *To allow children to apply the basic skills of English, Maths and ICT.*
- *To enable children to be creative and to develop their own thinking.*
- *Retain and develop their natural sense of curiosity about the world around them.*
- *Develop a set of attitudes which will promote scientific ways of thinking, including open endedness, perseverance, objectivity and a recognition of the importance of teamwork.*
- *Come to understand the nature of "working scientifically" (Curriculum 2014) involving: observation, the making and testing of hypotheses, the design of fair and controlled experiments, the drawing of meaningful conclusions through critical reasoning and the evaluation of evidence.*
- *Become effective communicators of scientific ideas, facts and data.*
- *Begin to build up a body of scientific knowledge, understanding and vocabulary, that will serve as a foundation for future enquiry.*
- *Encourage children to aspire to a career in STEM, through opportunities, breaking stereotypes and providing children with real life experiences.*

Implementation

Science is taught as a discreet, core subject, with a focus on developing children's 'working scientifically' skills. These skills equip children with the abilities to be able to think like a scientist, from devising questions for investigations to planning full experiments, considering variables, making predictions and fair testing.

Subject knowledge is spread across Biology, Chemistry and Physics in both KS1 and KS2 and progression of knowledge and skills is supported with the 'Kent Scheme of Work' planning and staff training.

Planning is differentiated to meet the needs of all pupils, including SEND and children with disadvantaged backgrounds. Differentiation is focused on science skills, allowing children to thrive in the subject without barriers in their learning.



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Key scientific terminology and a focus on scientific vocabulary is evident in all lessons. This is further supported by vocabulary walls in children's books, which assess children's initial understanding of scientific terminology and their progress through the area of learning.

In the EYFS we start to develop blocks of knowledge and concepts alongside the development of enquiry skills and characteristics of effective learning. Early Years practitioners record children's thoughts and observations on 'The World' in topic themed floorbooks.

Children across school have the opportunity to go on science trails, educational visits, engage in practical activities, plan scientific investigations that are centred around their interests and curiosities and take part in our exciting 'Science week' each year. Through Science week we have developed strong links with BAE, Victrex, UCLan, The Royal Astronomical Society, Blackpool and the Fylde College, Lancaster University, Bupa, Love My Beach, Junior Park Rangers and North West Ambulance Service.

The science team are passionate about embracing opportunities to continually develop the subject and keep colleagues up-to-date with advancements. This is implemented through CPD; our science team have strong links with STEM, The Primary Science Teaching Trust and The Ogden Trust, attending courses run by each and also being a fellow of the PSTT college. Baines' has also had a strong link with the Blackpool Science Network, chairing the meetings for several years. The science team are also leading on the Cidari subject network for science.

At Baines', we encourage imaginative and innovative application of skills and strive to promote a passion for science and its application in past, present and future technologies.

Impact

Pupils are assessed in their progress in science on a termly basis in line with Maths, English and RE as core subjects. Staff use statements from the National Curriculum on Target Tracker to track progress and report judgements to pupil progress managers and SLT.

Alongside our termly assessment staff also track pupils on our in school 'Teacher Assessment Framework Tracker'. This allows colleagues in Year Two and Year Six to assess scientific understanding from the whole Key Stage, helping them to form judgements at the end of the Key Stage.

TAPs Tasks from The University of Bath are available alongside planning for practitioners to use to help inform judgements.

Science leaders regularly monitor the subject across school through;

- Learning walks
- Work moderation and scrutiny



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- *Planning scrutiny*
- *Lesson observations*
- *Staff meetings and training*
- *Staff questionnaires and feedback*
- *Pupil questionnaires and discussions*

Review

Policy to be reviewed February 2026 Miss Clarke & Mrs Fifer

signed date subject lead

signed date chair of governors