



“With God all things are possible.” Matthew 19:26

Curriculum Overview and Statement of Intent, Implementation and Impact Science



Safeguarding

Safeguarding is at the centre of everything we do at St Matthew’s, we aim to ensure that everyone working in our school understands and adheres to their safeguarding responsibilities. We have a duty of care to all staff, pupils and their families. The safety and protection of all children is of paramount importance to all those involved in education. We are committed to inter-agency working to keep children safe. Together as a school community we provide a caring, positive, safe and stimulating environment, which promotes the social, physical and moral development of the individual pupil, whilst paying due regard to the protected characteristics of every child.

Equality and Diversity

As a Church of England Aided Primary School, St. Matthew’s school is rooted in Christian values and TEAM spirit, we aspire to be an innovative and inspiring community where every individual is provided with the opportunity to flourish spiritually, morally, emotionally, physically and intellectually. We are ‘Individuals working to potential with God’.

The school is committed to:

- promoting racial equality, good race relations and challenging racial discrimination. This is reflected in all school policies, procedures, processes and practices.
- ensuring that it is a place where everyone, irrespective of their race, colour, ethnic or national origin or their citizenship, feels welcome and valued and able to achieve their full potential.
- protecting the rights of all pupils, staff, parents, governors and visitors to the school.
- respecting and valuing differences between people.
- meeting the diverse needs of pupils.
- preparing pupils for life in a multi-ethnic society.
- acknowledging the existence of racism and being proactive in tackling and eliminating racial discrimination.

Intent	Implementation	Impact
<p><i>At St Matthew’s Primary school, our school vision is to encourage all children to flourish spiritually, morally, emotionally, physically and intellectually in all aspects of life demonstrating perseverance and resilience; this is emulated across all curriculum areas.</i></p>	<p>Science at St Matthew’s encompasses a whole school approach to supporting the process of illustrative and investigative science. Through this we aim to develop and widen children’s knowledge and understanding of key scientific ideas and ultimately their knowledge of</p>	<p>Here at St Matthews we encourage the children to see the world around them as an adventure, an unexplored universe. Science at St Matthew’s encompasses a whole school approach to supporting the process of illustrative and investigative science.</p>

<ul style="list-style-type: none"> • We strongly believe that science is fundamental, it is an extension of their everyday world. Science helps children develop essential life skills, including an ability to communicate, remain organised and focussed and even form their own opinions based on observation. • Children are naturally curious. Our science education fuels their curiosity and provides children with valuable ideas, skills and potential career choices. • We believe that scientists are an important part of our future world, we would not be able to predict earthquakes, the weather, understand global warming, cure illnesses or take care of the sick. Here at St Matthews we want our children to see how they could play an important part in any of these aspects of science in their lifetime. Our science learning encapsulates real life and curiosity, helping the children understand their role in our universe. • Here at St Matthews we like to take advantage of children's natural curiosity and nurture their enthusiasm for scientific discovery. 	<p>the world around them by teaching them to 'find out' and 'think' about science within everyday situations. At St. Matthew's, all staff, including teachers and support assistants strive to ensure that science is fun, developing appropriate ways of working to support children becoming scientists.</p> <ul style="list-style-type: none"> • We plan and teach a dynamic comprehensive programme, packed with inspirational lesson ideas, using interactive videos, interactive slideshows, worksheets and also a clear progression overview for each unit. Each lesson is built around a question, engaging the children to think and solve problems themselves, becoming more independent and aware of their part to play in our universe. Assessment opportunities are planned throughout each unit so that teaching staff can ensure misconceptions are identified early and also dealt with quickly. • Our progression in learning statements, using 'I Know' and 'I can' statements summarise clearly the stages children go through in their science teaching, • We use a variety of excellent, high standard resources to aid our teaching and learning, these include STEM, Collins resources, Explorify, BBC Bitesize. • We encourage independent critical thinking, where the children follow each process of the scientific investigative process. The children are encouraged to hypothesise independently, gather resources, use equipment safely, make sensible scientific predictions and justify and explain results and conclusions. • First hand, practical experiences are always a major part of our science teaching. The children are able to use our amazing school grounds which helps develop and extend natural curiosity and 	<p>Through this we aim to develop and widen children's knowledge and understanding of key scientific ideas and ultimately their knowledge of the world around them by teaching them to 'find out' and 'think' about science within everyday situations. At St. Matthew's, all staff, including teachers and support assistants strive to ensure that science is fun, developing appropriate ways of working to support children becoming scientists.</p> <ul style="list-style-type: none"> • Assessment opportunities are planned throughout each unit so that teaching staff can ensure misconceptions are identified early and also dealt with quickly. Talk partners are a useful tool where children can share their ideas and then feedback to the whole class. Assessment for learning is incredibly important when teaching science because teaching staff need to be aware of misconceptions but also where children exceed in their learning and can be encouraged to deepen their thinking. • Live marking is essential in all science lessons. Here the class teacher or TA can move around the classroom monitoring the children's responses in their books, addressing any misconceptions before they move on too quickly and also extend children's thinking. • Specific assessment activities are carried out at the end of each unit in small groups, where the children are encouraged to share their learning and recall important scientific facts through discussion, extended writing and sometimes simple diagrams. Where children struggle to record their ideas in written form, their amazing ideas are recorded by a peer or a supporting adult. We embrace the fact that children who may struggle to write extended pieces of writing or
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	<p>encourage children to ask questions and seek answers.</p> <ul style="list-style-type: none"> • We also encourage external visitors, those from Telford and Wrekin who teach year 3/4 about the importance of wearing reflective clothing during the dark , winter months. 'Be bright, be seen.' This session is taught is entirely through an exciting hands on science investigation. The health education team come in to teach the children about the 'Eatwell plate' and deliver healthy eating workshops. The 'Environmental services' from Telford and Wrekin visit to deliver recycling and environmental workshops and assemblies. • RSE is taught discretely within all year groups and linked closely to our science units. Specific lessons on 'Sex education' are taught within year 5, we liaise with parents on the teaching of these sensitive subjects and encourage participation from all children where possible because it is obviously part of the national curriculum. 	<ul style="list-style-type: none"> • excel in mathematics for example are very often the children that shine in science, they flourish.
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