

## Science Curriculum

***At St John's we work hard and aim high and are good friends to each other. Our Christian school is a happy place where learning together is fun.***

### ***Intent***

*The teaching of science at St John's CE Primary aims to give all children a strong understanding of the world around them whilst acquiring specific skills and knowledge to help them to think scientifically, to gain an understanding of scientific processes and also an understanding of the uses and implications of Science, today and for the future.*

*Our goal is to inspire children to be inquisitive, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence, which is all achieved through our broad science curriculum.*

*They will retain knowledge that is pertinent to Science today with a real life context. We want our children to question ideas and reflect and evaluate their own knowledge and experiments. We encourage our children to work collaboratively and practically to investigate and develop their scientific knowledge.*

*As children work their way through our school they will have the chance to consolidate and develop skills when working scientifically whilst deepening their scientific knowledge.*

### ***Implementation***

*Each science lesson will have a clear focus that will include scientific vocabulary, knowledge and specific enquiry skills. As a school we teach through topics and set units so that the children can build on their existing knowledge and skills. Children will always have the opportunity to recap their existing knowledge and build upon it through our curriculum as all of our topics appear more than once throughout the school.*

*Key Stage 1 has a focus on animals, plants and living things and materials which gives children the basis to expand on scientific concepts. Key Stage 2 has a wider variety of topics expanding from animals, plants and living things and materials to learn more about the world around us.*

*The teachers at St John's CE Primary School have a high standard of subject knowledge which has been developed through continued professional development. Our science lessons have clear and concise learning objectives with steps to achieve them. Our investigations will always have a purpose with something to find out. They are also effectively differentiated so that children have the appropriate level of support and challenge.*

*We value the working scientifically skills:*

- *Predicting.*
- *Concluding.*
- *Observing.*
- *Identifying and classifying.*
- *Measuring.*
- *Testing.*
- *Recording*

*These skills are an integral part of the science curriculum which enable children to carry out a range of experiments. We follow a 'progression of skills' document whilst working scientifically, to ensure consolidation and development.*

*We do our best to undertake field trips and visits or to invite specialists into school. We have begun to include elements of scientific enquiry into our newly developed Forest School, to improve the children's hands on experiences. We also have our own bird box camera, which we take enormous pride in, watching the birds hatch, grow and fledge.*

### ***Impact***

*Our Science curriculum shows clear progression of children's work and teachers' expectations in our school. Similarly, children's work shows a range of topics and evidence of the curriculum coverage for all science topics. They will be able to explain the processes they have undertaken and will be able to reason scientifically.*

*Children at our school thoroughly enjoy and are enthusiastic during science. They will have richer scientific vocabulary which will enable them to articulate their understanding of scientific concepts. We produce children who become increasingly independent in science where pupils lead their own investigations and use their own strategies to record them. They gain a wider variety of skills linked with scientific understanding and enquiry skills that will help see them through further study and a successful adult life.*

*Pupils are formally assessed against KLIPS (Key Learning Indicators of Performance) to ensure all pupils make good progress in science according to the National Curriculum. The Science Co-ordinator monitors this throughout the school.*