



SUBJECT CURRICULUM STATEMENT: SCIENCE

INTENT:

Our aim at St John's, is for all of our children to:

- ❖ Develop a sense of awe and wonder about the natural world
- ❖ Reflect on how science has shaped our lives, remains an integral part of our everyday lives and will continue to do so into the future.
- ❖ Cultivate a responsible attitude for their own health and promote care for the planet through our core values of wisdom, respect, hope, self-control and perseverance.
- ❖ Develop the key skills of questioning, observation, exploration, evaluation and reasoning
- ❖ Reason scientifically by following a line of enquiry and develop and present a justification, argument or proof using scientific language.

IMPLEMENTATION:

Science is a core subject in the National Curriculum. We use the National Curriculum for England (2014) as a basis for implementing the statutory requirements of the programme of study for Science, through carefully units of work planned by year group teachers. In the Foundation Stage we use the Early Years Foundation Stage Curriculum. To ensure children retain their skills and knowledge, we ensure Science is taught at St John's within every half term. When appropriate our Science is linked to our over-arching half termly themes and delivered with meaningful cross-curricular opportunities; when those links are not meaningful, we deliver a science unit discretely.

Through our planning we have ensured children have the opportunity to develop as scientists by:

- ❖ Assessing prior knowledge at the start of a Science Unit, linking to previous learning and to inform the planning of the current unit.
- ❖ Collating children's work in Science Books; Floor Books for Science are used initially in Year 1 to support transition from EYFS.
- ❖ Asking and answering scientific valid questions
- ❖ Mapping the development of vocabulary across the years
- ❖ Carrying out practical investigations and experiments
- ❖ Making careful observations and measurements
- ❖ Exploring our immediate locality, which provides a rich source of historic evidence
- ❖ Retaining their knowledge through quizzes and making explicit links with previous learning.
- ❖ Assessing their knowledge at the end of each science unit and addressing any misconceptions of gaps in their learning.
- ❖ Adapting planning and quality first teaching when necessary for children with individual SEND
- ❖ Providing opportunities to reflect on how their science learning is relevant to their own lives and the wider world.

IMPACT:

- ❖ As a result of curriculum development during 2019/20, and the existing good practice, we have a community of inquisitive, enthusiastic Scientists who enjoy showcasing their scientific skills, knowledge and understanding. Children love to challenge themselves and enjoy sharing their knowledge and opinions about the impact of science on the past, the present and the future.
- ❖ Children have a growing knowledge and understanding of science, and developing the skills to explore new science units year on year.
- ❖ Children have the wisdom, respect, hope, self-control and perseverance to reflect on how studying science can impact their futures and the future of the world.
- ❖ Children have been assessed at the end of each science unit in a variety of ways, including quizzes, multiple choice, direct questioning, 'double age spreads', and creating a final product that demonstrates their knowledge.
- ❖ All children make good progress and attain well in science.

CULTURAL CAPITAL:

We want children to leave St John's having gained scientific knowledge and understanding they require for the next stage of their education, and through our values of wisdom, respect, hope, self-control and perseverance. Reflect on how their study of science can impact their own futures, and enable them to make informed choices about their own personal choices and actions later in life. We hope to inspire them to be part of the great British tradition of achievement in science and technology.