

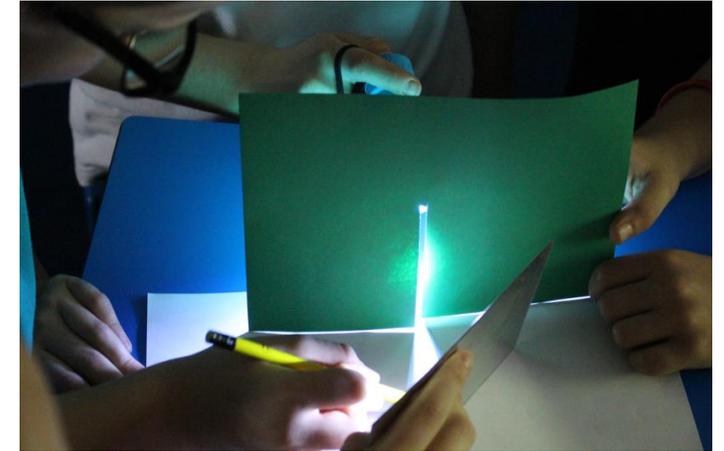


Thurton

Church of England VC Primary School

Enjoy, Achieve, Believe

SCIENCE



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SCIENCE: INTENT



At Thurton Primary School we acknowledge the importance of science in everyday life and encourage children's natural inquisitiveness. We encourage our children to develop an enquiring mind and analytical thinking skills through an interesting and relevant enquiry based science curriculum.

It is our aim to increase pupil's knowledge and understanding of the universe around them and to develop their skills through investigating and experimenting. We want to develop children who can think scientifically and have a good understanding of the uses and implications of science both today and for the future.

CHARACTERISTICS OF GOOD SCIENTISTS AT THURTON C OF E PRIMARY SCHOOL

- **CURIOSITY:** Being curious about the world around us. Wanting to know why things happen and how things work.

- **COURAGE:** sometimes scientists have to accept failure but have enough courage to keep trying. It can sometimes take years to make major discoveries. Some scientists have made amazing discoveries from their mistakes.

- **CREATIVITY:** sometimes scientists need to think 'outside of the box' suggesting ideas and visualizing things that cannot always be seen!

- **QUESTIONING:** a good scientist does not accept everything that they hear or read.



- **PATIENCE:** knowing that answers do not always come instantly. Scientists often have to repeat experiments many times to ensure that they are accurate.

- **AN EYE FOR DETAIL:** observations and collecting data are crucial in science. Accuracy in these details can lead to the discovery of new theories and lines of enquiry.

- **PERSISTENCE:** it is entirely possible that a scientist's idea and experimenting has led nowhere. It could be that their work is proved wrong by another scientist. They need to go back to the start and rethink.

If you enjoy Science you could become...

- a doctor or a nurse*
- a marine biologist (an expert in sealife)*
- a conservationist (protecting our planet)*
- a forensic scientist (helping to solve crimes)*
- a geologist (a rock expert)*
- a zoologist or a vet*
- a robotics engineer*
- an astronomer*
- a meteorologist (a weather expert)*
- an electrical engineer*

SCIENCE: IMPLEMENTATION



The key knowledge that the children will acquire is embedded within the National Curriculum for both key stages. At Thurton C of E Primary school we link this learning to the broader topics being covered each term in each class. Key skills have been mapped for each year group and are progressive across the school and follow the Working Scientifically expectations of the National Curriculum. Use of accurate scientific vocabulary is a focus within each lesson.

Each unit of learning is presented to the children as a learning journey with a clearly defined end point which can often be a project or investigation which will demonstrate their understanding. This allows children to understand the small steps in learning that need to take place to achieve the larger goal at the end of the of the journey.

SCIENCE: IMPACT



Links to the broader curriculum are explicitly made. Teachers frequently check existing knowledge prior to starting a learning journey and links to previous and future learning are made clear. Most learning journeys involve an investigation where children are taught, and can consolidate existing, scientific skills. Practical experimentation is encouraged throughout the school and children gain increasing independence in this as they move through the school. As children move through the learning journey they are able to track how well they have performed at each stop through the use of colour coded feedback. At the end of each learning journey, knowledge and skills are reviewed and assessed. Feedback is shared with parents at termly learning conferences and twice yearly reports.