



Totternhoe CE Academy – Science Intent, Implementation and Impact

Intent

- During their time at Totternhoe Church of England Academy, we would want our children to experience the designated aspects of the National Curriculum, so that they may be inspired and instil a sense of curiosity about the world in which they live, and help them develop a love of exploring the Science that is all around them.
- The Progression in our Curriculum reflects our awareness of the range of insight our children have, as well as the need to provide additional experiences for those who would not otherwise have the opportunity to participate in and observe concepts covered in lessons.
- Learning appropriate scientific vocabulary is key in giving the children the tools to express their understanding in an articulate and intelligent manner.
- Developing questioning skills allows for further investigation, consideration and scientific enquiry.
- Understanding and explaining physical processes will offer insight into 'how things work'.
- Practical work, as well as discussion, is geared towards promoting a love of learning.

Implementation

- Classroom activities are planned so as to excite the children and engage them.
- Visitors are invited to deepen the understanding of our children and visits are arranged to expand their knowledge, not only of Science but of the local and wider area as well.
- Dedicated curriculum time has been allocated for each year group.
- 'Watch me learn' provides the opportunity for parents/carers to see the children learning.
- Science Week is recognised and celebrated with relevant activities being planned.
- A range of scientific equipment is available for experimental tasks.
- Outdoor learning takes place in our Wonder Wood during the Forest School Programme.
- Pupil voice will gauge the children's perception of their science learning experience.

Impact

- All children are to make at least expected progress.



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- The books show evidence of experimental work and the scientific recording of facts.
- Children are encouraged to plan experiments, make plausible predictions, carry them out correctly and record results accurately in a variety of ways.
- Children can apply their knowledge and understanding of science to other areas of the curriculum.
- Children will have a love of science as a subject and enjoy their learning experiences.
- The children will be able to build upon knowledge gained on their learning journey.