

Curriculum Statement

At Bishop Pursglove, our aims are to fulfil the requirements of the **National Curriculum for Science**; providing a broad, balanced and differentiated curriculum that ensures progressive development and an understanding of scientific concepts through engaging, memorable, quality experiments, investigations and real life exploration.

Intent

At Bishop Pursglove C of E Primary School, our children are **SCIENTISTS!**

Our **intent** is to give every child a broad and balanced Science curriculum which enables them to confidently explore and discover what is around them, so that they develop a deeper understanding of the world in which we live in. We want our children to engage completely and love their Science lessons. We want them to be ambitious and grow up wanting to be astronauts, forensic scientists, chemists and biologists. We want our children to remember their science lessons in our school, to cherish these memories and embrace the scientific opportunities they are presented with! To achieve this, it involves exciting, practical hands-on experiences that encourage curiosity and questioning. Our aim is that these stimulating and challenging experiences help every child secure and extend their scientific knowledge and vocabulary, as well as promoting a love and thirst for learning. At Bishop Pursglove, we have a curriculum which has been carefully designed and developed with the need of every child at the centre of what we do. We want to equip our children with not only the minimum statutory requirements of the science National Curriculum, but to prepare them for the opportunities, responsibilities and experiences of later life.

Implementation

At Bishop Pursglove, Science topics are taught either in a yearly cycle or two yearly cycle in accordance with the National Curriculum.

- Topics are taught weekly to allow children to focus on developing their knowledge and skills, studying each topic in depth.
- Every year group will build upon the learning from prior year groups therefore developing depth of understanding and progression of skills.
- Teachers promote enjoyment and foster interest of the scientific disciplines; Biology, Chemistry and Physics.
- Children explore, question, predict, plan, carry out investigations and observations as well as conclude their findings.
- Children present their findings and learning using science specific language, observations and diagrams.
- In order to support children in their ability to 'know more and remember more' there are regular opportunities to review the learning taken place in previous topics as well as previous lessons.
- At the start of each topic children will review previous learning and will have the opportunity to share what they already know about a current topic.
- Children are given a knowledge organiser at the start of each topic which details some key Science Curriculum Statement information and vocabulary. This is not used as part

of an assessment, but to support children with their acquisition of knowledge and is to be used as a reference document.

- Effective CPD opportunities are available to staff to ensure high levels of confidence and knowledge are maintained.
- To support teaching, teachers access a range of resources and planning from Cornerstones.
- Effective use of education visits and visitors are planned, to enrich and enhance the pupil's learning experiences within the Science curriculum.
- Effective modelling by teachers ensures that children are able to achieve their learning intention, with misconceptions addressed within it.
- Through using a range of assessment tools, differentiation is facilitated by teachers, to ensure that each pupil can access the Science curriculum.
- Children are given clear success criteria in order to achieve the learning intention with differing elements of independence.
- Pupils are regularly given the opportunity for self or peer assessment, which will then be used to inform planning, preparation, differentiation and address misconceptions within that lesson, or for the next lesson.
- Cross-curricular links are planned for, with other subjects such as Maths, English and Computing.

Impact

The successful approach to the teaching of Science at Bishop Pursglove results in a fun, engaging, high quality science education that provides children with the foundations for understanding the world that they can take with them once they complete their primary education. So much of science lends itself to outdoor learning, and so we provide children with opportunities to experience this. Pupil voice is used to further develop the Science curriculum, through questioning of pupils' views and attitudes towards Science, to assess the children's enjoyment of science, and to motivate our learners.