



Science at Bishop David Sheppard CE (A) Primary School

Intent

At Bishop David Sheppard, we aim to provide children with a strong understanding of the world through a high quality science education. In an increasingly scientifically complex society, we tailor our curriculum to provide pupils with the competence and confidence to thrive.

Implementation

We have carefully planned our curriculum to ensure a clear progression of knowledge and skills across year groups. This aims to support children in incrementally building their knowledge and understanding whilst limiting misconceptions (Ofsted, 2021). Our bespoke curriculum ensures topics are revisited a number of times which strengthens retention within children's long term memory. (EEF, 2022)

A recent Educational Endowment Foundation review rationale (EEF, 2021) stated that

“Children should be provided with a science education that enables them to appreciate what science is, how it works, the social nature of its practices, and its relevance to the lives of individuals and society.”

During our weekly lessons, our children are taught about the relevance of what they are learning; how it affects their daily lives now and also the opportunities that may present themselves in the future.

Teachers use systematic teaching approaches to support all children learning science within the school (Ofsted, 2021).

Lessons are also appropriately structured and scaffolded to allow long-term retention and review of prior learning (EEF, 2022) as are our chosen methods of recording. Teachers use a range of activities including modelling, explanation and high-quality practical work (both guided and independent) to



support children with this retention: all activities are purposeful and carefully matched to individual lesson objectives.

Within our lessons we allow lots of opportunities for talk, both child to child and child to teacher in line with EEF's (2018) metacognitive strategies. At Bishop David Sheppard, we wish to immerse children in scientific vocabulary which aids their knowledge and understanding not only of the topic they are studying but of the world around them. To support this, we use appropriate scientific vocabulary which has been planned according to year group topics and ensures progression. This talk and our lessons are enhanced further by high-quality texts being readily available both within the classroom and central school library; we aim to further promote our strong priority of reading and ensure this is applied across the curriculum (Ofsted, 2021).

In addition to weekly lessons, here at Bishop David Sheppard we are committed to providing our children with a wealth of scientific experiences and opportunities that enhance and enrich their learning. These include science days, after-school clubs, educational visits and many opportunities to learn outside the classroom in our extensive grounds.

Impact

At Bishop David Sheppard, the impact we intend to achieve is that our children will be prepared for the next phase of their education. We strive to ensure that our children not only acquire the age-related knowledge linked to science but also have the skills which will enable them to progress. Children will have a variety of investigative skills and will be able to articulate their learning using a range of scientific language.



References

Ofsted (2021). *Research review series: science*. Available at: <https://www.gov.uk/government/publications/research-review-series-science/research-review-series-science> Accessed May, 2022.

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