



Science

At St Osburg's we know that scientific knowledge and enquiry are fundamental to understand the world in which we live in and how it works.



Intent – We aim to



Deliver an interactive and exciting curriculum creating engagement with the world around them.



Provide a life long love and enthusiasm of science that stretches beyond the classroom.



Engage inquiring minds through different investigations, activities and enquiries



Promote meaningful cross curricular links particularly with other STEM subjects e.g. maths and design and technology .



Ensure that all children see themselves as Scientists and understand their contribution to the world around them



Implementation

At St Osburg's we underpin our science curriculum using four key concepts. —Physics, Biology, Chemistry and Working Scientifically. All children have the chance to develop their understanding in these key concepts appropriate to their age and Key Stage.



Biology



Chemistry



Physics



Working Scientifically



Key Skills



Questioning



Measuring



Predicting



Handling Data



Observing and fair testing



Drawing Conclusions

Learning Content



Forces and electricity



Light and Sound



Earth and Beyond



Living Things & Habitats



Materials & Matter



Animals and humans



Plants



Evolution & Inheritance

What this looks like at St Osburg's



- EYFS science, is taught through experiences and topics, which allow the children to make observations of nature and the school environment, seasons and what living things need to grow.
- In KS1 and KS2 science lessons are taught weekly for between one to two hours following the NC topics for each year group. Children also have the opportunity to explore the work of related scientists.
- Each year, we have a designated 'Science Week', where children take part in activities linked the National Science Week theme. This is enhanced by hands on experiences, delivered by visiting scientists or trips to local museums or exhibitions.



Assessment Retrieval and understanding of scientific vocabulary and concepts is a key focus in every science lesson to ensure ongoing formative teacher assessment. Baseline and end of unit activities are used to ensure progress in subject knowledge. The children are also assessed in their scientific working and enquiry.



Impact Our children will enjoy science and scientific enquiry with an enthusiasm and interest. They will be able to talk confidently using appropriate scientific vocabulary. They will know the contributions of science and scientists on the wider world and have an appreciation of how this has an impact on us today. The majority of our children will meet expected standards in science by the end of KS2.

