

# Science

At Sandhurst Primary School we believe that high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils at Sandhurst School are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They are encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.



In the EYFS we explore similarities and differences in relation to places, objects, materials and living things. We talk about features of our own immediate environment and how environments might vary from one to another.. Pupils make observations of animals and plants and explain why some things occur and talk about changes. One of the highlights of the year is the spring when we have 'Living eggs' delivered and we observe and care for the eggs and then the chicks as they hatch.

In Key Stage 1 we follow the key skills and National Curriculum. The areas of learning that we cover over a three year rolling programme are: plants, animals including humans, everyday materials and their uses, seasonal changes, living things and their habitats.

In Key Stage 2 we use Empiribox to deliver our science lessons. This is a four year rolling programme which delivers CPD to teachers at Sandhurst School three times a year to enable them to confidently provide stimulating and enjoyable science lessons . The autumn topic is physics based, the spring topic has a chemistry background and the summer topic is based in biology. The scheme also addresses the key skills of: planning, data and analysis, evaluation and scientific knowledge.



The national curriculum for science aims to ensure that all pupils: develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics, develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.