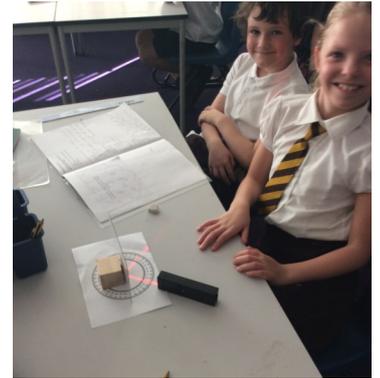


# Science

At Sandhurst Primary School pupils follow the National Curriculum Programmes of Study for Science. In Key Stage 2 we invest in a scheme called Empiribox. Empiribox supplies us with the means to do fun, inspiring hands on experiments. They provide equipment, lesson plans, support and teacher training in Physics, Chemistry and Biology for the whole of KS2. There are 12 complete Schemes of Work; 4 chemistry, 4 physics and 4 biology, with one taught for an entire term. This ensures children get in-depth exposure to each branch of science over the whole of KS2.



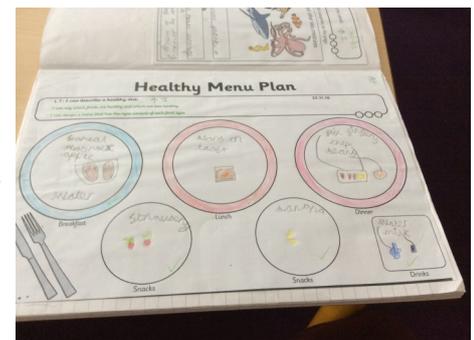
The whole of KS2 teaches the same unit at the same time and lessons are adapted to suit the year groups abilities. Currently in Science we are studying Physics and our topic is Light. We will be moving on to Chemistry and exploring Acids in terms 3 and 4. Finally in terms 5 & 6 we will be learning about Senses in our Biology module.



Years 3 & 4 focus on making predictions and drawing conclusions from the experiments that they do. Years 5 & 6 look at the experiments in greater depth and identify and change the independent variable. They then make their predictions based upon the changing variable and draw conclusions from this.

In Key Stage 1 children are taught science that is linked in with their topic work. They learn to use the following methods, processes and skills:

- asking simple questions (for example, 'What would happen if I didn't give a plant water?')
- observing closely, using simple equipment such as a magnifying glass
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering questions



Under the new 2014 national curriculum, the children in Year 1 will learn about:

Plants, identifying and naming plants and looking at their basic structure Animals including humans, identifying and naming a range of animals and understanding how and why they are grouped (e.g. mammals, birds, amphibians etc) Everyday materials, looking at their properties Seasonal changes, observing changes across the four seasons and looking at different types of weather

In Year 2, children will be looking at:

Living things and their habitats, including dependence within habitats and micro-habitats Plants, observing how seeds and bulbs grow into plants and what plants need to stay healthy Animals including humans, focusing on reproduction, nutrition and exercise Everyday materials, comparing their uses and looking at how they can be changed by exerting force

