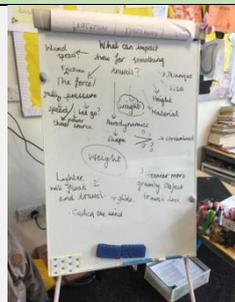


King's Stanley Science Curriculum

At King's Stanley C of E Primary School, we mostly teach Science as a discrete subject. Occasionally we link this learning, where appropriate, with the class's topic

Topics



All year groups teach a range of five science topics across the school year. These topics cover Biology, Chemistry and Physics.

The Biological topics are: Plants, Animals, Seasonal Change, Living things and their habitats plus Evolution.

The Chemistry topics are: Everyday Materials, States of Matter and Rocks.

The Physics topics are: Light, Forces, Sound, Electricity, Magnetism plus the Earth and Space.



Skills



At King's Stanley we have designed our science curriculum around the skills that we feel are important to enable the children to carry out investigations in different ways: by posing questions, carrying out a range of tests, collecting and analysing results, drawing conclusions and evaluating their ongoing work. We encourage the children to publish their work within the class, whilst we ensure we teach the content of the national curriculum.

Taking measurements, using a range of scientific equipment, with increasing accuracy and precision	Take repeat readings when appropriate.	Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.	Using test results to make predictions to set up further comparative and fair tests	Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

Hands on



We provide practical activities and investigations whenever possible so that children learn through first hand experiences. Practical enquiry tasks may be investigations directed by the teacher, illustrative practical work or pupil led, self-generated questions. We enable children to develop their skills of cooperation and perseverance through working with others and to encourage, where possible, ways for children to explore science in forms which are relevant and meaningful: Making cakes in food technology to show the characteristics of sedimentary rocks; dissecting a heart and looking at reversible and irreversible changes during cooking and making an erupting volcano.



Science days and challenges



The profile of Science in the school is highlighted every year by having a specific day or challenge set for the school. These have been a Space day for the Tim Peakes Launch; having an 'Inter-House' marble run challenge, where the winning teams entered a national competition with one group achieving highly commended; a mice rocket launch where scientific enquiry investigative skills were highlighted to show progression across the school and currently the school has entered 'Fly to the Line' which is a glider challenge, RAF Cosford.

Visits



Visitors are invited into school regularly to help enhance the curriculum. STEM Works attend every year. Groups have then been invited back to different industries, for example to Renishaw for seeing science in the real world. 'Fizz Pop Science Show' has visited Key Stage 1 for hands on experiences. Classes attend events and museums in the area. Wycliffe's Science Day where practical activities are provided by different local employers and Explore @ Bristol. Expert teachers from local secondary schools also work with the children providing specialist equipment and knowledge.

