



Science at Kenton Bar Primary School

As a core subject, we place a great emphasis on teaching science in our curriculum at Kenton Bar Primary school. Science develops investigative and reasoning skills and helps children to understand the world around them.

Intention

- In our **Early Years Foundation Stage**, we aim to:
 - Develop curiosity about what children observe in the natural environment and themselves
 - Develop ability to find differences, similarities, patterns and change in the world around them and themselves
- In **Key Stage 1 and Key Stage 2**, children study the National Curriculum for Science we aim to:
 - Provide the foundations for understanding the world through specific disciplines (Biology, Chemistry and Physics)
 - Teach pupils the essential aspects of the knowledge, methods, processes and uses of science which are vital to the world's future
 - Encourage pupils to use rational thinking to help explain a variety of phenomena
 - Encourage children to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes
 - Develop children's excitement and curiosity of science.

Implementation

- Lessons build on progression and depth of learning
- Lessons link to termly topics where possible
- Exciting and engaging lessons with practical experiments
- Teachers present knowledge clearly, effectively model and teach skills
- Opportunities to apply their mathematical knowledge in science- including collecting, presenting and analysing data
- Whole school science week. (STEM)
- Expose children to scientific language to use in learning accurately and precisely.
- Children explore different ways in which to experiment including: observing over time; pattern seeking; identifying, classifying and grouping; comparative and fair testing (controlled investigations); and researching using secondary sources.
- CPD to support teacher subject knowledge
- Clubs and workshops
- Expose children to experts/professionals in STEM.

Impact

- Inspired, excited and engaged learners
- Confident and capable at methodically working through investigations
- Work shows clear understanding and reasoning in experiments.

We will measure the impact of our science curriculum through the following methods:

- Evidence of subject knowledge being taught through planning and books
- Reflection on standards achieved against the planned outcomes
- Evidence of practical and investigative work in 'Curriculum Journey' books
- Pupil discussions about their learning

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2019-2020

