

How we teach Science at Kenningtons Primary Academy

“Science is the process which takes us from confusion to understanding” – Brian Greene

What do Scientists do?

- Ask questions
- Find answers to real life problems
- Explain the world we live in
- Create and test a hypothesis
- Collect and analyse data
- Carry out detailed observations
- Share and explain their findings
- Use scientific vocabulary

Intent

At Kenningtons we are inquisitive scientists. We learn about the physical and natural world in which we live, as outlined in the National Curriculum. In the EYFS, we use the statutory framework area of learning ‘Understanding the World.’

Knowledge:

We develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.

Skills:

Alongside this, we develop the skills required to be a scientist.

Implementation

- In the EYFS, science skills and knowledge are integrated within the theme being covered and we spend time learning in a range of ways through independent activities or carpet sessions led by our teachers.
- Science is taught to us for one afternoon each week. Whilst it is taught discretely, our teachers help us to make links with other subject areas when it is relevant.
- The skills we need to acquire have been clearly mapped so that there is progression; I can do more today than I did yesterday.
- Our teachers use our outside areas to support our learning in science, for example in places such as the allotment, the outdoor classroom and The Woodland. In Reception, we wear our wellies on Wednesdays and explore our woodland habitat.
- Trips and experts are carefully planned by our teachers and help to bring our learning to life
- *Our teachers are currently working hard to improve the way we learn in Science and have purchased a scheme of work from a company called Plymouth Science.*
- *Years 2, 3 and 4 are trialling the resources during this half term to check they are suitable for us to use.*
- *Even though we have just started using the scheme of work, our teachers think that the lessons seem more exciting and make us far more active in our learning – there are lots of fun experiments for us to practise being real scientists!*
- *Each unit starts with a ‘Unit Summary Page’ which shows the knowledge learning objectives we will be covering in each lesson and lists the scientific enquiry and working scientifically skills we will be using. It also shows the vocabulary we will need to know to be successful. These summaries are used at the end of each lesson to make us think about what we have learned, and how confident we feel about it.*
- *Mrs Goyette, our Science leader, is helping teachers to use the new scheme and is regularly popping into our lessons and looking at our books to see how we are getting on*

- *In the Spring Term, the whole school will be taking part in Science Week where we will have Science every afternoon, linked to a National theme.*

Impact

We will demonstrate our learning within the science curriculum through our books, displays, working walls, in our conversations with teachers and by the vocabulary we use.