



# Curriculum Intent for Science

- a curriculum that is ambitious for all pupils;
- a curriculum that is coherently planned and sequenced;
- a curriculum that is successfully adapted, designed and developed for pupils with special educational needs and/or disabilities;
- a curriculum that is broad and balanced for all pupils.

## What does Science look like at West Ashtead?

Within Science, we cover all the areas as outlined in the National Curriculum. Through our progression documentation we can develop and evidence the children's learning as well as building upon what they have learnt in previous years. Staff are aware of future learning but as part of the teaching of science, children's knowledge of the topics they cover is deepened to ensure understanding. The staff and children use the language of science and can explain which of the five types of enquiry they are participating in. Our curriculum covers elements of biology, chemistry and physics. All children have access to practical and well-resourced lessons to enable a hands on learning approach as well as real life examples to make it relevant to them.

Our science lessons are constantly linked to the world around them and made relevant to the children by using their every day experiences to support their understanding of new concepts. Where possible, science also complements learning in other subjects to help create links for the children and allow them to apply their learning.

## What do our children say about science?

"I really like when we do practical things. I like using all the science equipment to find stuff out."

"The workshop has made me feel confident about science. I am curious for more information."

## Why is Science important?

Science is all around us and explains how the world we live in works. It is interwoven into many jobs and our lives in general. As well as the subject's wider importance it also teaches the children a variety of skills. These include: working independently to solve a problem; how to ask a question and the skills needed to answer it in the most efficient way; questioning what we know and what we see around us; developing social skills to work as part of a team to complete a task and understanding the workings of the world around us – something which underpins many other subjects.

The world we live in depends on the understanding of science at some level. At West Ashtead, we pride ourselves on giving the children this understanding and giving them a good base of scientific understanding which they can take with them to secondary school and beyond. We show the children there is no ceiling to their learning and that they can achieve anything they put their mind to. Through showing them careers and university courses, we hope to inspire them to reach their potential and open their eyes to the opportunities science can bring them.

## How do we enrich our children's understanding of Science?

To support the science curriculum we also build the children's science capital through using links with local businesses such as Exxon, Surrey University and Supermassive Games to name a few. In addition to this, the children's independent learning is supported and encouraged through the use of TASC wheel days, science weeks, trips, visitors and a science fair. Children at West Ashtead get a wide range of science opportunities to give them a well-rounded idea of how the world works.

We also provide children with opportunities which open their eyes to science at a higher level from an early age. These opportunities include a careers fair to allow them to see how science can help them with jobs in the future/ make pupils aware of jobs they may like to pursue. We also use secondary school contacts to allow them to experience lessons such as heart dissection. Surrey University also visited to teach the children and tell them about university opportunities for them.