



Intent

The intent of our science curriculum at Leybourne Chase is to deliver an inclusive curriculum which is accessible to all in order to maximise the outcomes for every pupil. As one of the core subjects taught at primary school, we give the teaching and learning of science the prominence it deserves. Pupils will:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics;
- Develop understanding of the nature, processes and methods of Science through different types of scientific enquiry that help them to answer scientific questions about the world around them;
- Be equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.
- Develop an enthusiasm and enjoyment of scientific learning and discovery.

As a result of this they will **know more, remember more and understand more**. We endeavour to ensure that the science curriculum we provide will give children the confidence and motivation to continue to further develop their skills into the next stage of their education and life experiences.



Implementation

Teachers follow a clear and comprehensive scheme of work in line with the National Curriculum. They are aware of prior and post learning in each termly subject, and formative and summative assessments establish progression across both key stages within the strands of science. The curriculum at Leybourne Chase plans for practical investigative opportunities within science lessons on a termly basis. This is supported by an online source that gives teachers the confidence and professional development they need to deliver high quality, practical science in their classrooms.

We build upon the learning and skill development of previous years as well as drawing cross curricular links through our termly themes and literacy. As the children's knowledge and understanding increases they become confident, enquiry-based learners.

Pupils will access resources to acquire learning through science equipment, digital technology, practical experiences and school enhancement experiences. They will use a range of secondary resources to develop the knowledge and understanding that is integral to their learning. As they become more proficient in selecting and using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence.

Pupils follow a learning journey that is clearly mapped out in books and on display boards in the classroom. Developing pupils' understanding of the small steps of progress on a weekly basis, encourages a culture of self-evaluation by teachers and pupils. This, combined with knowledge organisers, ensures that children have access to key language and meanings in order to understand and readily apply to their written and verbal communication of knowledge and understanding.

At Leybourne Chase we work closely with, and utilise the expertise of, the secondary schools within the academy trust. Pupils take part in workshops, which offers pupils context and real-life experience. The development of this cultural capital is an essential part of making our students aware of the opportunities available to them, not only at secondary school but also in life.



Impact

- Pupils will achieve age related expectations in Science at the end of their cohort year.
- Pupils will retain knowledge that is pertinent to Science with a real-life context.
- Pupils will be able to question ideas and reflect on knowledge.
- Pupils will work collaboratively and practically to investigate and experiment.
- Pupils will be able to explain the process they have taken and be able to reason scientifically.
- Pupils will make the transition to Year 7 with a secure base upon which to build, and an enthusiasm for the subject.
- Pupils will develop creativity and resilience to problem solve and reason