



Chalton Lower School - Science Curriculum Review

Intent: What we want to achieve:

We want our pupils to become inquisitive, curious and want to explore the world around them. We want them to extend their knowledge, understand the world and learn to love, respect and investigate their natural world, scientific forces and phenomena as well as themselves. We want them to ask questions, to research further outside of the classroom and to be respectful and appreciative of everything and everyone around them.

Implementation: How we will achieve this:

- We will provide a wide range of scientific experiences for all pupils regardless of age, ability, gender, specific educational need or disability which encourages their love of learning and passion for investigation.
- We will teach scientific skills to pupils through a progressive programme of study, (Twinkl) that will ensure that by year 4 all pupils are able to use basic scientific methods independently, growing strongly from the excellent work from Early Years teaching.
- We will ensure that the children can record their results in a variety of ways, building on writing up investigations with data included.
- We will provide differentiated teaching to meet the different conceptual needs of the full ability range in each year group.
- We will help the children to develop an enquiring and questioning approach to scientific discovery through a range of concepts and starting points.
- We will help the children to develop a problem-solving approach to scientific experimentation where they lead their learning.
- We will help the children to develop close observation and precise recording which demonstrates their learning through the Key Stages.
- We will relate scientific knowledge to everyday experience.
- We will ensure science teaching and learning is safe and use a range of resources to accelerate the children's learning.
- We will assess and monitor pupils' progress against National Curriculum/levels of attainment.
- We will celebrate Science Week and have a range of activities across the school.

Impact: The intended outcomes of the science curriculum:

- Pupils will develop a love of learning, investigating, experimenting and will want to test their theories to their fullest.
- Pupils will work hard to meet the challenges of the growing curriculum and become resilient in their investigations.
- Pupils will learn to draw upon prior learning and enhance this learning with research, experimentation and concluding.
- Pupils will become tolerant, independent and determined learners who tackle problem solving with inquisitive attitudes.
- Pupils will become effective communicators in both oral and written work.