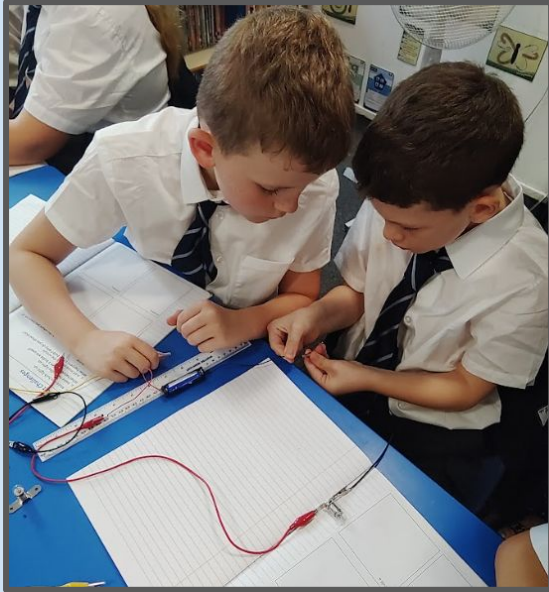




# Intent



Science is a systematic investigation of the biological, chemical and physical aspects of the world, which relies on first hand experiences and on other sources of information. The scientific process and pupils' problem-solving activities will be used to deepen their understanding of the concepts involved. The main aspects of science to be studied is determined by the programmes of study of the National Curriculum 2014.

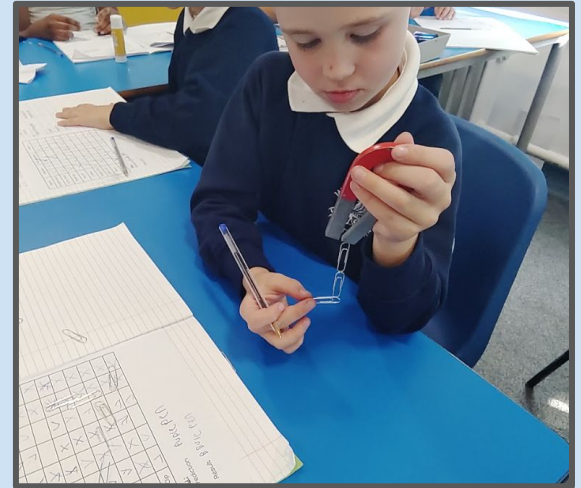


# Implementation

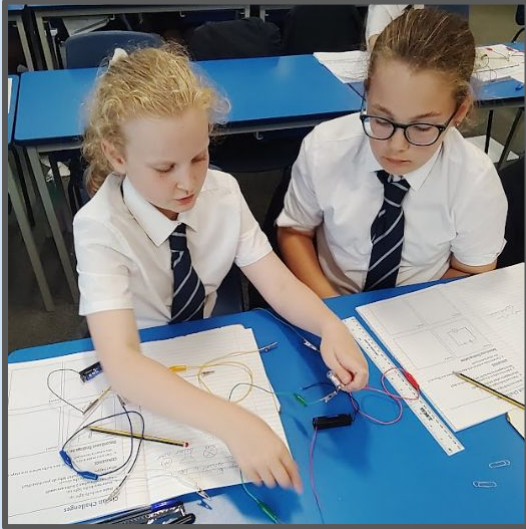
## How is Science taught at Westlands Primary School?

With a variety of creative and practical activities, we teach the knowledge, understanding and skills needed to engage in our scientific curriculum. There are regular opportunities to develop scientific skills through practical experimentation in the classroom and outside.

Following the Curriculum Maestro scheme of work, children are given the opportunity to gain a thorough understanding of a range of scientific subjects.



# Inclusive Practice



Throughout Westlands Primary School, learning in Science is differentiated to match each child's developmental stage. Tasks are clearly scaffolded by teachers and key skills and techniques are modelled. Children are provided with a range of high quality resources to help aid their learning, such as key vocabulary word mats and learning walls. Children are encouraged to discuss their scientific ideas and are challenged and corrected in a sensitive manner within lessons. Models are often used to give children a concrete and tangible example to aid their understanding.





# Enrichment Activities

In Science, we aim to provide opportunities for children to explore their learning in a more practical and meaningful way.

Some of our enrichment activities at Westlands Primary include:

- Growing plants for around the school
- Growing fruit and vegetables
- Visiting Westlands' farm
- Visits from outside agencies, such as planetariums
- Visits to Kent Science Park
- A range of practical STEM activities
- Regular opportunities to experiment and challenges their knowledge

Enrichment activities often see high levels of pupil engagement in the subject and lead to high quality outcomes, as well as providing valuable and memorable experiences.



# Impact of your curriculum

At Westlands Primary we measure children's progression in Science against the core curriculum skills and objectives for each year group.

This will be evidenced through:

- Science books
- Science working walls
- Completed displays of children's work
- Photographs
- Observations
- Learning walks
- Tapestry - EYFS



# National Curriculum

At Westlands, science programmes of study in the national curriculum are assigned to Key Stages.

Science is taught using the Curriculum Maestro scheme of work, which uses an ambitious primary curriculum to embed knowledge through knowledge rich projects (KRPs), following a four stage learning pedagogy of Engage, Develop, Innovate and Express.

Science projects are sequenced to develop both children's substantive and declarative knowledge, and where possible, make meaningful links to the real world. These links allow for children to embed their substantive knowledge in new and often real-life contexts.

