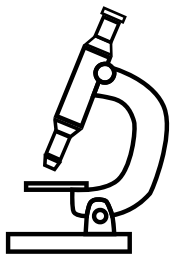


Science



Where it begins

In EYFS, pupils learn about their world through 'Understanding the World'. They learn how to make observations about their world. They learn about life cycles, plants, materials, seasons and much more. Through continuous provision, they are guided to explore concepts such as weight, transparency and movement.



Hands-on learning

Pupils work scientifically throughout Science lessons. They plan, prepare and carry out investigations to answer key questions. Pupils use scientific equipment safely and responsibly. Our working scientifically symbols and butterfly help us to know which skill we are using.



Reading and vocabulary

Reading and vocabulary are key to Science learning. New vocabulary is taught explicitly and modelled in context by teachers. Working walls support pupils to remember this vocabulary and use it in context. Pupils read around the subject, allowing them to gather information about Scientists and their theories.



Well-sequenced lessons

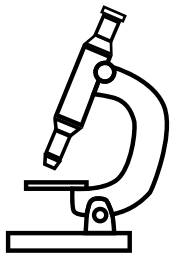
Teachers plan well-sequenced lessons with the support of knowledge organisers which provide guidance for the order and content of lessons. Key knowledge is outlined and CPD opportunities are provided. Subject leaders attend MAT training and disseminate to staff during staff meetings.



Inclusivity

Science learning supports all pupils to become the best Scientists they can be! Everyone receives high quality teaching and learning with scaffolding to support. Pupils are challenged with 'going deeper' investigations to encourage them to make links.

Science



Cross curricular links

Reading and writing helps us to unlock and showcase understanding. Maths is essential to Science but teachers ensure that Maths concepts are covered in Maths lessons prior to those concepts being used in Science investigations. Technology is used throughout our Science learning too!



Cultural Capital

Leaders have created a cultural capital map for teachers to follow. This provides experiences linked deliberately to Science units to broaden our understanding and experience. In Science, these include trips to Science museums, virtual reality experiences and expert Q and As.

Disciplinary knowledge



Pupils at Houghton St. Giles learn **how** to be a Scientist as well as facts! Our Science Lead has planned out opportunities throughout topics for us to work scientifically. We recognise the symbols and have them on our learning objectives to help.

Substantive knowledge



Guided by the National Curriculum, subject leaders have created a two-year rolling programme which is both progressive and challenging to support our mixed-age school. Scientific knowledge we learn about includes Animals including humans, living things and their habitats, Electricity and Light to name but a few!



Assessment

Teachers assess throughout topics and not just at the end. They balance assessment of substantive and disciplinary knowledge to get a rounded view of each pupil's understanding. Quizzes help to keep assessment engaging for pupils.