Science Overview

In Science we use the Twinkl Planit scheme of work which follows the Key Stage 1 and Key Stage 2 National Curriculum. Planit carefully maps out the teaching and learning sequence for each science topic. There are plenty of opportunities for children to work scientifically meaning children are learning through a hands-on approach to science. Science is taught weekly and lessons must be inclusive and resources adapted appropriately to ensure that all children can access the curriculum. There is no greater depth expectation in science, however teachers must ensure that through a range of methods they are developing all children's scientific knowledge and challenging all pupils.

A Progression map with the non-negotiables has been written to support teaching and learning. It shows the progression across the programme of study requirements from year 1 to year 6. Statements here are taken directly from the national curriculum science programme of study and have been organised into topics together with the Scientists and Inventors PlanIt unit. Teachers have taken part in a research project, and most recently have been introduced to Rosenshine practices to understand different ways and techniques in which we can support our children to retain the information that they have already learnt. Such techniques include: odd one out and why? true or false, sorting activities, for example, using a Venn diagram, guess what I am? questioning, mind maps, knowledge organisers, 'chocolate bar', speak like an expert and concept cartoons.

Assessment is ongoing and takes place formatively during lessons. Children must also complete an end of unit assessment check which is available for all year groups and every unit. The results of the end of unit check are recorded on Insight (our online assessment tracker) as *below*, *working towards* or *expected*. Teachers use the Science objectives on Insight to show if children have achieved in each objective. This allows teachers to have a clear understanding of which children are working at and towards the expected standard and is then used for end of key stage judgements and to adapt planning if needed.