

# Science



## **Intent**

At The Pochin School, it is our intention to provide children with the Science skills they need to become confident, inquisitive scientists, who are equipped with the skills they need to for the next stage of their education and who recognise the importance of Science in every aspect of daily life. We encourage the children to be competent researchers, investigators and evaluators, whilst equipping them with the facts they need. We give the teaching and learning of Science high prominence, it is taught both as a discrete subject and where appropriate cross curricular links are made for example with writing and maths.

## **Implementation**

We expect that the majority of pupils to achieving age related expectations, so the large majority of pupils progress through the curriculum at broadly the same rate. Our curriculum links directly to scientific knowledge, skills and understanding to ensure that learning is sequenced, progressive and continuous. Wherever possible the curriculum is enriched with opportunities for the children to apply their scientific skills and knowledge. Working in the school garden, visits from outside agencies as well as educational visits supplement our carefully sequenced curriculum. Support is given to children who achieve ARE to extend their learning, as well as those who find concepts more difficult to understand.

## **Impact**

The successful approach to the teaching of science at The Pochin School results in a fun, engaging, high quality science education, that provides children with the foundations for understanding the world and equips them for further scientific study. Assessment at is predominantly formative using both formal strategies (e.g. periodic year group assessment tasks, quizzes) and informal strategies (use of concept maps, verbal/written outcomes, reflection tasks/presentations, knowledge harvest and evaluation sheets at the beginning and end of each topic). This allows for misconceptions and gaps to be addressed more immediately rather than building on insecure scientific foundations.

We hope to foster in the children of The Pochin School a love of science work and an interest in further study and work in this field along with retention of knowledge that is pertinent to Science with a real-life context. They are able to question ideas and reflect on knowledge. Children can articulate their understanding of scientific concepts and reason scientifically using rich language linked to science. Through their work they demonstrate a high love of mathematical skills, organising, recording and interpreting results, work collaboratively and practically to investigate and experiment. Most achieve age related expectations in Science at the end of their cohort year.