



## Science

### Intent

At South Ascot Village School, we recognise the importance of Science in every aspect of daily life. As one of the core subjects taught in Primary Schools, we give the teaching and learning of Science the prominence it requires. The Scientific area of learning is concerned with increasing pupils' knowledge and understanding of our world, and with developing skills associated with Science as a process of enquiry. It will develop the natural curiosity of the child (cat), encourage respect for living organisms and the physical environment (owl) and provide opportunities for critical evaluation of evidence. At South Ascot Village School, in conjunction with the aims of the National Curriculum, our Science teaching offers opportunities for children to:

- develop scientific knowledge and conceptual understanding through the specific disciplines of Biology, Chemistry and Physics;
- develop understanding of the nature, processes and methods of Science through different types of scientific enquiries that help them to answer scientific questions about the world around them;
- be equipped with the scientific knowledge required to understand the uses and implications of Science, today and for the future.
- develop the essential scientific enquiry skills to deepen their scientific knowledge.
- Use a range of methods to communicate their scientific information and present it in a systematic, cross-curricular manner, including I.C.T., diagrams, graphs and charts and a variety of written text types (spider).
- Develop a respect for the materials and equipment they handle with regard to their own, and other children's safety.
- Develop an enthusiasm and enjoyment of scientific learning and discovery (cat).

### Implementation

At South Ascot Village School, Science is taught for the equivalent of two hours a week in KS1 and KS2. In Early years, science is taught through the children learning about the world around them in their learning through play. The National Curriculum will provide a structure and skill development for the science curriculum being taught throughout the school, which is now linked, where possible, to the theme topics for each year group to provide a creative scheme of work (monkey), which reflects a balanced programme of study. Our Science provision will include:

- Starters: these will engage pupils and provide them with an entry point to their topics.
- Practical elements: these will ensure that children are engaged and enthused during their Science learning.



## South Ascot Village School - Curriculum

- Thoughtful questioning: this encourages deeper thinking and the consideration of other viewpoints (spider).
- Creative recording: this allows children to share and explain their findings in a creative way (monkey).
- Studying important scientific figures: this will broaden the knowledge of the children by teaching them about a diverse and multi-cultural range of scientists throughout history.
- Encouraging external stimuli: through trips and visits, children will be given the opportunity to develop their skills and knowledge beyond the classroom.
- Themed Days: these will celebrate and raise the profile of important scientific findings. We will hold a Science Week annually by completing fun and exciting experiments.

### Impact

At the end of each year, pupils will have a comprehensive understanding of the science curriculum and a positive outlook on their learning journey through South Ascot Village School. They will be able to discuss their findings using key vocabulary and references from their completed work. Children will have covered all the areas of scientific enquiry, developing their analytical and questioning skills (spider) along the way. Also, the children will have consolidated learning from other curricular areas due to the creative recording of data (monkey) using a variety resources and methods.

- Pupil voice: Through discussion and feedback, children talk enthusiastically about their Science lessons and show a genuine curiosity and interest in the areas they have explored (cat).
- Evidence in knowledge: Pupils can call on their prior learning to propel their understanding of Science (spider). They can verbally explain their learning clearly using key vocabulary.
- Evidence in skills: Pupils use acquired vocabulary to interpret and convey their understanding of the subject. They are able to record data in a variety of ways and can prove or disprove a hypothesis in a fair and safe manner.
- Breadth and depth: Teachers plan opportunities for pupils to study across concepts and deepen their conceptual understanding in aspects of particular scientific value. Pupils have the confidence and are inspired to further their knowledge (butterfly).