

## Cultural Capital Intent: Science

In Science, the children's 'Super Scientists' journey begins with looking at themselves. The children understand that they are a human being and can identify the basic parts of their body. As an introduction to animal biology, the children focus on common woodland animals. This is developed further by learning about jungle animals as this can be easily accessed through popular stories. To ensure that children develop their Citizenship Values through Science, the children understand how to look after pets and how to care for animals and other people. The children even look after their own chicks! The children in EYFS begin to study plants and trees within the immediate locality, gaining knowledge of similarities and differences. By learning more about living things, the children begin to understand basic lifecycles and how things grow. In line with this, the children learn more about fruit and vegetables and begin to gain knowledge about keeping healthy and balanced diets. Throughout the year, the children notice changes in the weather and seasons and experience these first hand. Weekly Forest Schools sessions further enhance the EYFS science curriculum.

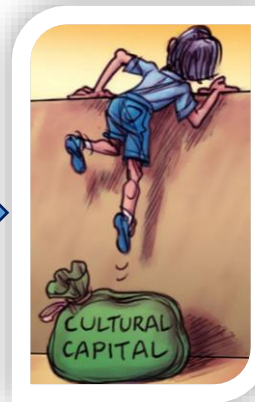
In Year 1, the children gain further knowledge and understanding of the human body and the senses linked their own body parts. To enrich the learning further, the children experience a senses learning walk around the immediate locality. Building on their knowledge from EYFS, the children learn more about seasonal changes and focus on weather more closely. Here, the children learn to make accurate observations of the weather around them. Linking strongly to Art and Design, the children use their understanding of seasonal changes to construct their own 'Seasonal Collage.' In the Spring Term, the focus turns to materials. Linking to Design and Technology, the children distinguish between different materials which in turn helps them to create an effective pop-up puppet. Moving forward, the children learn about plants and identifying both wild and common garden plants and flowers. Enriching the learning further, the children become 'magnifying glass detectives,' studying the basic structure of plants and flowers closely and also observing mini-beasts. As part of this topic, the children visit Rushmere Park to learn more about wildlife and experiencing the roles in which people take to help the environment around us. In the Summer Term in Year 1, the children continue to develop their identification and classifying skills when looking at animals. At the end of Year 1, the children once again learn about materials, their properties and purpose.

At the beginning of Year 2, the children focus on materials and their suitability for purpose. As part of their topic on The Great Fire of London, the children also look at fire-resistant materials and how designs can be improved due to the materials used. Linking heavily to learning in English and the book 'Leaf,' the children gain an understanding of adaptation and different habitats that animals survive in. This learning continues into the Spring Term, including understanding more about keeping healthy and surviving as humans. This continues when learning about plants, focusing on lifecycles and growing from seeds and bulbs. In the Summer Term, the children gain knowledge on simple food chains and how animals source food, this is enhanced further by their visit from Zoolab where children get a hands on experience of real animals. Microhabitats are also studied. To end their last topic, the children revisit materials and investigate suitability and how materials can be manipulated for a purpose, understanding the effectiveness of specific properties.

### ASPIRATIONS

- Environment – David Attenborough
- Climate change - Greta Thunberg
- Roles in conservation – Rushmere Park
- Artist – Emma Majury
- Professionals – carers/chefs
- Pioneers/Inventors – The OU

*Each term the children in KS1 study a new scientist linked to their current science topic. This helps to develop aspiring Scientists of the future.*



### ENRICHMENT

- Senses walk
- Locality studies
- Visit to Rushmere Park
- Forest Schools sessions
- ZooLab visit
- Links to:
  - English – Leaf by Sandra Dieckman
  - History (Great Fire of London)
  - DT (Puppet making & Moon Buggy)
  - Art (Seasonal collage)

