

## Larchfield Science Curriculum Intent, Implementation and Impact Statement



### **Intent**

At Larchfield Primary and Nursery School, the teaching of science is underpinned by our vision and values. We aim to educate and inspire children to go further, achieve more, contribute more, whilst being respectful, responsible and safe members of our school family.

The learning in Science is guided by appreciating and gaining understanding of the world around us, using purposeful concepts to prepare children for the wider world. It is our ambition that our children will become scientists as learners and have naturally inquisitive minds that develop a curiosity of the world. Our aim is to instil a love for Science and give our children the mind-set to think, enquire and be resilient, just like the pioneers of Science have done in the past.

### **We will deliver curriculum that:**

Inspires creative learning built on prior learning and demonstrates a progression of skills through well planned, sequential lessons which meets the needs of all our children so that they can reach and exceed their potential. The Science lessons taught will develop both knowledge and skills so children are secure and can achieve end of topic outcomes with a depth of understanding. These skills and knowledge will be embedded, allowing children to transfer prior learning and become critical thinkers. We aim for our children to leave primary education with a clear knowledge of the key scientific principles and the impact that they can have on the world around them.

### **Implementation**

The curriculum is led and overseen by the Subject Coordinators and SLT. Subject Coordinators play an important role, leading a regular programme of monitoring, evaluating and reviewing their subject in addition to sharing and celebrating good practice in order to continually evolve and improve further. Our curriculum is based on the Grammarsaurus framework, which is adapted and amended to make sure it is suitable for all of our children.

A long-term plan is agreed for each year group with our over-arching topics which adopt an inter-disciplinary approach enabling children to make links in their learning. Our topics are designed to be creative, fun and engaging whilst covering all aspects of the National Curriculum.

Our curriculum map allows for the sequencing of lessons and builds on prior learning and the fluent development of new skills which are revisited within the year and in subsequent years. This will help to develop long-term memory by allowing the repetition of learning. Retrieval practice is embedded in every lesson to ensure previous knowledge is regularly accessed ensuring long term memory development. Subjects are assessed to inform planning and monitor children's progress.

Teachers are given training and the opportunity to develop their own subject knowledge, skills and understanding to enable them to support the curriculum development. This is achieved through regular in-school staff CPD meetings, subject network meetings within the

borough, National College CPD and where appropriate, attendance on externally provided training.

Teachers are encouraged to use outdoor areas and provide experimentation opportunities to allow all children to have access to experiential learning.

### **Impact**

All children demonstrate enjoyment and engagement during Science lessons which is shown through learning walks and book looks. Children develop good topic-related scientific vocabulary which is used in context within their writing. Children are inquisitive and want to ask further questions to deepen their understanding of science-related topics. Children make progress and build on their prior knowledge, relating their scientific knowledge to the world around them.