



## **Science Vision Statement**

Science is about developing children's ideas and ways of working that enable them to make sense of the world in which they live through investigation, as well as using and applying process skills.

**At Lambley Primary School we aim to:**

- Prepare children for a life in an increasingly scientific and technological world.
- Help children acquire a growing understanding of scientific ideas.
- Provide opportunities for children to acquire practical scientific skills.
- Develop the skills of investigation- including observing, measuring, predicting, hypothesising, experimenting, communicating, interpreting, explaining and evaluating.
- Develop each child's understanding of scientific concepts and their ability to apply them in everyday contexts.
- Foster concern about, and active care for, our environment.
- Encourage children to ask and answer scientific questions.
- Provide children with an enjoyable experience of science.
- Build on children's natural curiosity and develop a scientific approach to problems.

### **Science Curriculum**

We offer the children a broad and balanced curriculum which builds on their knowledge, skills and understanding of science each year. Children will leave Lambley being able to apply their knowledge and understanding of scientific ideas to familiar phenomena, everyday things and their personal health

During their early years the children will encounter a curriculum rich in opportunities to explore science, following the guidance in the Early Years Foundation Stage document. The children will be encouraged to learn through structured play and targeted questioning.

The aims and objectives for Science reflect the requirements of the new National Curriculum 2014 for Key Stage 1 and 2 children. We refer to these documents to inform our long-term planning and to plan differentiated learning objectives to be covered in each year group to ensure continuity and progression. An enquiry based curriculum is used for the majority of key concepts. Science is taught regularly so that children are able to sustain their progression throughout EYFS, Key Stage 1 and 2.

## **Planning**

Science at Lambley is a core subject which we aim to link into topics wherever possible. If not, then it is taught as a separate subject. Planning highlights the skills the children need to acquire each year.

- \* Long term plans map out the units to be covered each term, during each Key Stage.
- \* Medium term plans identify learning objectives and outcomes for each unit, as well as indicating the skills being taught, and making links to other curriculum areas.
- \* Short term plans prepared by each teacher, highlight the skills and objectives of the lesson, and identify resources and appropriate differentiation and assess. They also indicate key questions.

## **Assessment and Monitoring**

Teachers assess children against clear learning objectives and success criteria. Children are encouraged to self, and peer assess, throughout each unit.

The subject leader is responsible for monitoring attainment and progress, the outcomes of which are collated in the subject leadership folder and fed back to staff at an appropriate time. Teaching and learning is monitored at a time indicated in the School Improvement Plan Monitoring and Evaluation Timetable.

Formal assessment and reporting is completed at the end of each key stage.

## **Extra-curricular science activities and opportunities**

These will be promoted through a house afternoon and educational visits to places such as the Space Centre. Year 5 and 6 use online resources from BBC Live. Resources and examples of good practice are taken from our Teaching School Alliance (CLTSA) science network.

## **Health and Safety**

The general teaching requirement for health and safety applies in this subject.