

Science policy

(revised September 2024)

Rationale:

Science is a core subject of the National Curriculum. Science at LPS aims to stimulate and sustain a child's curiosity in finding out why and how things happen around them and in the world. Science teaches children to enquire, question and investigate and stimulates independent, creative thought. Children will begin to appreciate how science affects their future on a personal, national and global level. Children will also learn how they, as individuals, affect the world around them.

Children will need an understanding of Science in a work force becoming increasingly more scientific and technology driven, so we strive to show the children how science is used in many industries and career paths and we believe this curriculum can also help them lead a healthy, productive life.

The Science curriculum at Leasowe Primary begins in Foundation 1 and progresses through to Year 6 and is organised in a way that allows the children to build an in-depth knowledge and skills base year on year.

Our aim is that all children leave LPS with a secure Science knowledge that will enable them to access the wider Science Programme in their secondary placement.

Science in EYFS

Science plays a key role in all teaching within EYFS as all learning is focused on children 'Understanding the World'. Children learn through explorative and modelled continuous provision which is created specifically to allow children to enquire, question and discover. The EYFS team are led by the children's curiosity and interests and children are given the opportunity to transfer their skills with carefully planned activities. Staff ensure that children are exposed to the vocabulary and skills they will need in order to access the progressive Science curriculum at LPS in Year 1 and beyond. This provision means all children have the opportunity to achieve their Early Learning Goals before entering KS1.

Science in the Resourced Provision / disadvantaged children and those children falling behind.

Children in the RP are taught in smaller classes with a higher adult to pupil ratio. An adapted curriculum has been created to facilitate the different ages and abilities within the RP classes.

Children falling behind will be identified quickly as knowledge and skills is assessed at the end of each lesson. Support will be given to those children in small groups prior to the next lesson.

Science in KS1 and KS2

We have developed an ambitious Science Programme that is based on the National Curriculum expectation for science theory, knowledge, vocabulary and skills. Our curriculum is ordered in such a way as to ensures progression of knowledge through the subject and children will understand how all units are related and dependant on each other. Children are also given every opportunity to work scientifically and experimentally and think independently. Learning is woven into other subjects, showing children how science is an integral part of all learning and society.

Children will learn the importance of Science within our history as humans (both naturally and technologically) and also our place in the world today and be aware that they, as individuals, play a part in our planet's journey.

Our curriculum aims to:

- Stimulate children's curiosity and enjoyment of science.
- Develop practical learning.
- Develop observation, interpretation, prediction and questioning skills.
- Encourage children to make their own suggestions and approaches to problems.
- Teach children how to collate and use data.
- Teach children how to work safely and how to assess risk.
- Teach the children their place within the natural world.
- Ensure children treat the natural world and their environment with respect.
- Prepare the children for Biology, Physics and Chemistry in secondary education.

Each child receives two hours of Science study each week in line with national recommendations. Each half termly unit of study consists of six weeks blocks. These are (in order):

- Seasons / Light / Earth and Space
- Materials / Rocks / States of Matter
- Plants
- Living things and their habitats / Evolution /Inheritance
- Animals including Humans
- Forces / Sound / Electricity

The first lesson of each block will be a retrieval lesson, then four teaching lessons, followed by an assessment week.

Science will be taught through stories, short films and other resources to encourage the children to see science in the world around them.

During the school year, all children will have the opportunity to undertake safe controlled experiments, use our school allotment and forest school area, join the extra-curricular science club and attend school trips to places that will embed their scientific learning.