Science at Ladbrooke

INTENT

Aims

At Ladbrooke JMI School we believe that science draws on children's natural interest and curiosity in the world around them. Lessons will allow our children to be actively involved in investigations through generating their own questions and planning and setting up their own tests. Through our science curriculum, we will develop in children strong observational skills, high quality scientific language, opportunities to record data in a variety of ways and the ability to develop well thought out conclusions.

7 Skills of Enquiry

- observing
- Sorting and classifying
- predicting
- measuring
- investigating
- Analysing data
- comparing

IMPLEMENTATION

Topics Include:
Plants
Animals including humans
Everyday materials
Seasonal change]
Animals and living things
Rocks
Light
Forces and Magnets
Living Things and Habitats
States of Matter
Sound
Electricity
Evolution and Inheritance
Earth and Space
Properties and changes of Material

Skills
Asking questions
Use scientific vocabulary
Observing closely
Performing simple test
Use a range of equipment
Taking measurements
Making comparisons
Identifying and classifying
Collecting and presenting data
Use data to answer questions
Reporting on findings
Making predictions
Using scientific vocabulary
Make suggestions, draw conclusions and suggest improvements
Plan and carrying out investigations

Taught Through:
Links with topic
(Integrated into topics – key stage 1
Linked to topics whenever possible – key stage 2)

Building on previous learning
Using pupil led investigations
Theme weeks
Real Life problem solving
STEM challenges
Opportunities for extended writing

EYFS

Science in EYFS is mostly covered in the 'Understanding the World' area of the EYFS curriculum. Play is planned to promote scientific enquiry and children are encouraged to explore, problem solve, observe, predict, think, make decisions and talk about the world around them.

Enriched through…

Educational Visits
Challenges
Specialist Teachers
Workshops
Theme Weeks
Day Trips
STEM ambassadors
Staff CPD
School environment – EYFS, Owl House

IMPACT

CLASS TEACHERS
Mark lessons and assesses progress of children and identifies next steps for lesson

CLASS TEACHERS
Evaluate topic and take in views of pupils to amend and improve next time

CLASS TEACHERS
Assess pupils on key skills/knowledge and complete topic sheets

SUBJECT LEADERS
Monitor pupil work, through book looks and pupil voice

SUBJECT LEADERS
Analyse data from topic sheets and identify whole school issues

SLT
Meet with subject leaders, carry out book looks, use information to inform SIP