

Inspiring and enabling our school community to live life to the full



YEAR 1 SCIENCE

Properties and uses of materials

Our Science curriculum aims to enthuse children and help them to be curious and develop a sense of excitement about the world. Through a range of teaching, learning and extra-curricular opportunities, children will develop scientific knowledge and conceptual understanding to recognise the uses and implications of Science, today and for the future. We encourage children to ask their own questions; predict how things will behave and analyse causes, using Science to explain what is happening.

Characteristics of an Effective Learner

Courage
Commitment
Collaboration
Creativity
Curiosity

Prior Learning:

In Reception, children learned about the different materials toys can be made from.
In Year 1 Autumn 2, children learned how to perform a simple test and gather data to answer questions.

Key Vocabulary taught in this unit:

Compare, describe, different, record, similar, sort, suitable, use, bar chart, test, bend, flexible, opaque, rigid, waterproof, group, observe, absorb/absorbent, manufactured, material, natural, property, recycle, reuse, transparent

Key Questions:

- Q: Can the same object be made from different materials?
- Q: What properties do materials have?
- Q: Does it bend or stretch?
- Q: Do all materials get wet?

Intent: What do we want the children to know, be able to do by the time they complete this unit?

- distinguish between an object and the material from which it is made
- describe the physical properties of a variety of everyday materials
- compare and group together a variety of everyday materials on the basis of their simple physical properties.

Working Scientifically:

- Observing closely, using simple equipment.
- Performing simple tests.
- Identifying and classifying.
- Gathering and recording data to help in answering questions.

Impact / Outcome:

What will the final product / result be?

Children will learn about the methods scientists use to build explanations about everyday materials, how and why they are used. They will learn that scientists make observations and collect and analyse data to test their ideas.

They will develop an understanding of the following types of enquiry: identifying and classifying, comparative testing.

P4C Inquiry (where appropriate) N/A