Our Science curriculum aims to enthuse children and hep 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.

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

YEAR 2

Subject: Science
Materials – Properties and Uses

Characteristics of an Effective Learner

Courage
Commitment
Collaboration
Creativity
Curiosity

Prior Learning:	**Key Vocabulary taught in this unit:**
Year 1 – Children learn to identify different materials and know how some of them are made. They investigate properties such as waterproofness and buoyancy.	Materials, plastic, wood, fabric, metal, rock, rubber, properties (eg. stiff, flexible, stretchy, transparent, heavy, shiny etc) suitable, unsuitable

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

Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses

Look at objects made from different materials.

Identify which materials are appropriate for certain objects and which are not.

Carry out a comparative test to find out which types of materials are appropriate or not appropriate to make a teabag.

Consider what properties are important when making a Rocket Mouse.

Enquiry skills

Asking simple questions and recognising that they can be answered in different ways

Ask and answer questions about how far their Rocket Mice might travel and whether different bottles make a difference to the distance.

Observing closely, using simple equipment

Observe what happens when hot water is poured onto teabags made from different materials.

Performing simple tests

Devise and carry out a test to decide which material would make the best teabag. Organise their own test to see whose rocket mouse will travel the furthest.

Identifying and classifying

Identify and group objects made from wood, metal, plastic, fabric, rock and rubber.

Using their observations and ideas to suggest answers to questions

Children decide which materials are appropriate for certain objects and which are not. Children observe how far their rocket mice travel and decide whether different bottles make a difference to the distance.

Impact / Outcome: What will the final product / result be?

Children apply their knowledge of the properties of different materials to help them investigate which material would make the best teabag and which Rocket Mouse travels the furthest.

P4C Inquiry (where appropriate)

NA