Hallcroft Infant & Nursery School

Science Lesson Sequence

Spring 1 - Year 1

Everyday Materials

What we already know, remember and can do:

- **Posing questions -** Exploring the world around them and raising their own simple questions. Recognising there are different types of enquiry (Ways to answer a question).
- **Predicting -** Suggesting what might happen, often justifying with personal experience.
- **Observing (qualitative data) -** Using their senses to describe, in simple terms, what they notice or what has changed.
- **Measuring (quantitative data) -** Using non-standard units to measure and compare.
- **Researching -** Gathering specific information from one simplified, specified source.
- **Recording (tables/diagrams) -** Using a prepared table to record tally frequency. Drawing and labelling simple diagrams.
- **Graphing -** Representing data using pictograms.
- **Grouping and classifying -** Grouping based on visible characteristics.
- **Analysing and drawing conclusions -** Using their results to answer simple questions.

	Learning Objective	What children will know and remember (Substantive)	What children will be able to do (Disciplinary)	Revisited Vocabulary	New Vocabulary
1	**Knowledge -** I can identify everyday materials. **Working scientifically -** I can sort objects into groups based on the materials they are made from.	**Knowledge** ✓I can name everyday materials. ✓I can identify the materials different objects are made from.	**Working scientifically** ✓I can sort objects into groups.	Group	Fabric Glass Material Metal Object Plastic Rock Wood
2	**Knowledge -** I can recognise the difference between objects and materials.	**Knowledge** ✓I can name objects. ✓I can identify the material an object is made from. ✓I can explain the difference between objects and materials.		Group	Fabric Glass Material Metal Object Plastic Rock Wood
3	**Knowledge -** I can describe the properties of materials.	**Knowledge** ✓I can recall that property refers to how a material can be described. ✓I can describe the properties of everyday materials. ✓I can recognise that objects are made from materials which suit their purpose.			Material Object Property

4	**Knowledge** – I can group materials based on their properties (absorbency). **Working scientifically** – I can make observations and record data.	**Knowledge** ✓I can name the properties of materials. ✓I can sort materials into groups based on their properties.	**Working scientifically** ✓I can describe and record what I notice.	Group	Absorbent Data Material Object Opaque Property Transparent Waterproof
5	**Knowledge** – I can group materials based on their properties (waterproofness). **Working scientifically –** I can plan a test and suggest what might happen.	**Knowledge** ✓I can suggest ways to test the properties of materials. ✓I can make a prediction.	**Working scientifically** ✓I can recognise when my prediction does not match the results.	Group	Data Fabric Material Property Waterproof
6 **Outcome**	**Knowledge** – I can group materials based on their properties (toughness). **Working scientifically** – I can answer questions based on results.	**Knowledge** ✓I can describe how materials respond to pulling and tearing.	**Working scientifically** ✓I can use my observations to answer questions. ✓I can recognise if a test is fair.		Material Property Tough

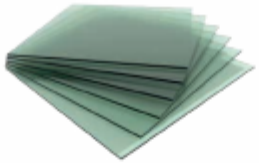
Science - Everyday materials

Materials

wood

plastic

metal



glass

rock

water

Materials have different **properties**.

hard	bendy	heavy
soft	rough	light
stretchy	fluffy	shiny
stiff	cold	strong
smooth	sharp	fuzzy

waterproof Stops water getting through.

absorbent Soaks up and holds on to water.

transparent See-through.