## EVERYDAY MATERIALS

## INTRODUCTION

This module introduces children to a range of basic materials and their properties. In lessons 1-6 they learn to name and identify wood, plastic, metal, glass, rock, brick, water and other materials, many of which will be familiar to them. They understand that these materials can be made into many different objects, from spoons made of plastic, wood or metal or any combination of the three, to more complex objects. They learn to distinguish between an object and the material from which it is made, and to define an object as, for example, a wooden spoon or plastic cup, by the material from which it is made. They recognise that the same material can be made into different objects, for example, a metal can, a metal spoon and a metal car. In the second half of the module use touch and sight to identify a number of simple properties of materials, and test materials such as paper and fabric to compare their properties. In the extension lessons children choose materials to decorate a picture frame based on their different observable properties, and compare the properties of liquid water with frozen ice.

## National Curriculum:

To identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock
To distinguish between an object and the material from which it is made
To describe the simple physical properties of a variety of everyday materials
To compare and group together a variety of everyday materials on the basis of their simple physical properties

## Working Scientifically:

Identifying and classifying
Observing closely using simple equipment
Performing simple tests
Using observations and ideas to suggest answers to questions
Gathering and recording data to help in answering questions
Performing simple tests

## Scientific Enquiry:

Grouping and classifying
Carrying out simple comparative and fair tests

## Key vocabulary:

materials, wood, wooden, plastic, metal, glass, water, rock, brick, paper, writing, wrapping, shiny, drawing, display, greaseproof, kitchen towel, handkerchief, wallpaper, sand paper, fabric, wool, nylon, silk, fleece fibre, properties, hard, soft, fluffy, rough, smooth, shiny, dull, light, heavy, transparent (see-through), opaque (can't see-through), translucent (see something through), harder, lighter, rougher, stretch, stretchy, elastic, stiff, bend, bendy, not bendy, press, squash, twist, shape, waterproof, absorb, absorbent, soak up, mop up; frozen, freeze, melt, salt, tissue paper, button, glass bead, marble, pebble, pasta

## FACT FILE:

Everything around us and that we use is made of some form of material. All materials come from animals or plants, are dissolved in the sea or are mined from the ground. Today some materials are artificially made in commercial chemical plants. Some of these materials are used as they are and others are altered to make new, manufactured materials.
For this module the basic classification can be shown as:
Natural: rocks, soil, water, wood
Manufactured: metals, plastic, glass, rubber, paper, fabrics, bricks
Natural materials can be identified in the physical environment - soil, rocks and water - or the biological environment - wood.
Manufactured materials have been processed in some way from raw materials, for example, metals are processed from the refining of metal ores, paper is produced from wood pulp and
fabrics are produced from plant and animal fibres. Other materials are produced from the chemicals extracted from natural materials, for example, plastics.
The properties of materials that Year 1 children experience are largely based on their direct sensory experience of the materials, how they feel and how they look. They look for similarities and differences, and make comparisons, for example, smoother, harder, shinier, etc.

