

# What do you know? Science Materials



<b>Year 1</b>
I distinguish between an object and the material it is made from.
I know the material that an object is made from.
I know the difference between wood, plastic, glass, metal, water and rock.
I know about the properties of everyday materials.
I group objects based on the materials they are made from.
<b>Year 2</b>
I identify and name a range of materials, including wood, metal plastic, glass, brick, rock, paper and cardboard.
I know why a material might or might not be used for a specific job.
I know how materials can be changed by squashing, bending, twisting and stretching
<b>Year 3</b>
<b>Year 4</b>
I group materials based on their state of matter (solid, liquid, gas).
I know how some materials can change state.
I explore how materials change state.
I measure the temperature at which materials change state.
I know about the water cycle.
I know the part played by evaporation and condensation in the water cycle.
<b>Year 5</b>
I compare and group materials based on their properties (e.g. hardness, solubility, transparency, conductivity ( <i>electrical and thermal</i> ) and response to magnets).
I know how a material dissolves to form a solution; explaining the process of dissolving.
I know and show how to recover a substance from a solution.
I know how some materials can be separated.
I demonstrate how materials can be separated (e.g. filtering, sieving and evaporating).
I know and can demonstrate that some changes are reversible and some are not.
I know how some changes result in the formation of a new material and that this is usually irreversible.
I know about reversible and irreversible changes.
I give evidenced reasons why materials should be used for specific purposes.
<b>Year 6</b>