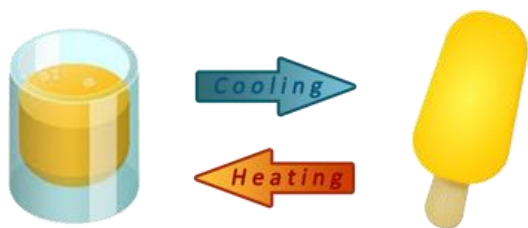


In science in Year 5 we are learning about:

## Properties and Changes of Materials



### Key Vocabulary

grouping  
classifying  
permeability  
absorbency  
hardness  
solubility  
transparency  
opaque  
conductivity  
electrical  
thermal

magnetic  
sieving  
filtration  
dissolving  
soluble  
insoluble  
mixture  
solution

reversible  
irreversible  
chemical  
reaction  
substance  
gas  
light  
heat  
colour change

#### What I already know:

On the prior knowledge quiz, I scored  out of 20.

#### What I want to find out:

#### What did I learn?

#### At the end of this unit you will:

- Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal) and response to magnets.
- Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
- Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.
- Give reasons, based on evidence from comparative fair tests, for the particular uses of everyday materials, including metals, wood and plastic.
- Demonstrate that dissolving, mixing and changes of state are reversible changes.
- Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate soda.

#### You will work Scientifically by:

- Planning different types of scientific enquiry to answer questions, including recognising and controlling variables where necessary.
- Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
- Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
- Reporting and presenting findings from enquiries including conclusions, casual relationships and



	<p>explanations of and degrees of trust in results, in oral and written forms such as displays and other presentations.</p>
--	---