

SCIENCE



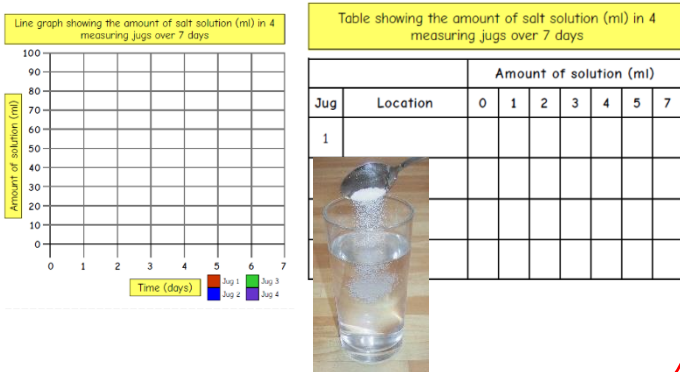
PROPERTIES AND CHANGES OF MATERIALS

HOMEWORK PROJECT

In this unit, children have begun to explore different types of materials, thinking about natural v man made, where they are from and how to describe them using scientific vocabulary. Through this homework project, we aim to deepen pupils understanding around their changes (reversible and irreversible) and the most effective materials for a purpose.

YOU HAVE 4 COMPULSORY PIECES OF HOMEWORK TO COMPLETE, EACH HAS HOMEWORK IS SET ON MONDAY 24TH FEBRUARY AND IS DUE IN ON MONDAY 7TH APRIL 2025. (6 WEEKS TO FINISH!)

Using the graph and record table (printed out for you) , carry out a fair test at home to dissolve salt in different locations around your home.



Be a vocabulary detective: Can you cut out the scientific vocabulary, mix it up from the definitions and then match them back together?

Dissolve	When a solid becomes a liquid so as to form a solution.
Solute	the minor component in a solution, dissolved in the solvent.
Solvent	the liquid in which a solute is dissolved to form a solution.
Solution	a liquid mixture in which the solute is mixed with the solvent.
Condensate	When vapour is turned back into a liquid
evaporate	When liquid is heated and slowly turns into a gas. (Water turns into water vapour)
Decanting	Separating two substances carefully by pouring one substance out of the container.
Soluble	When a substance dissolves into another substance
Insoluble	When a substance cannot dissolve into another

Investigate what objects around your house are made of. Using the chart that has been printed out for you, research materials properties and find other things that they are useful for!

WALT: I can explain why materials are used for different purposes.
 Success criteria
 I can use the key scientific vocabulary.
 I can identify the materials properties.
 I can link the materials properties to the appropriate use.

Object	Material made from	Purpose of object	Properties of this material	Why was this material chosen for this object?	Would any other materials be suitable for this object? Explain why.
Pan					
Tea towel					
Sink					
Washing up gloves					
Washing up bottle					
Cupboard doors					

Reversible and irreversible! Using this website: <https://kids.britannica.com/kids/article/reversible-and-irreversible-changes/632995>

Create your own home experiment to show a change that can be reversed and a change that cant be reversed! It is up to you how you document it; poster; pictures on Dojo; written report- the choice is yours!

