

Science

WALT: investigate materials which will dissolve.

Dissolving

Dissolving occurs when the particles of certain solids mix with the particles of certain liquids. When a material dissolves, it looks like it disappears but it has actually just dissolved in the liquid to make a transparent solution. A solution is formed when a solid dissolves in a liquid. Not all solids will dissolve and not all liquids will allow solids to dissolve.

Many people get confused between dissolving and melting but there are several important differences:

Dissolving

- Dissolving involves a liquid and another material, often a solid.
- In dissolving, the solid mixes into the liquid to make a new liquid, called a solution.
- Dissolving doesn't need heat to occur.

Melting

- Melting involves only a solid.
- In melting, the solid changes into a liquid that is the same material.
- Melting needs heat to occur.

When thinking about dissolving, two key words are **soluble** and **insoluble**. Watch the following clip to find out what they mean:

<https://www.bbc.co.uk/bitesize/topics/zjty4wx/articles/zpbdpbk>

Activity 1:

Write a definition for soluble substances and insoluble substances then give some examples of each.

	Definition	Examples of substances
Soluble		
Insoluble		

Activity 2:

We are going to be completing an experiment to investigate which materials will dissolve. You will need to get several substances (for example: salt, sugar, flour, chalk, pasta etc.), put them in water and stir them to see if they will dissolve. You need to present your findings in the table below. Once you have completed your experiment, write a conclusion to explain what you have found.

If you don't have the equipment and resources at home then watch the video on the school website showing the experiment. (Reddal Hill Primary School website – Parents – Home learning – Year 5 – W.B. 01.02.21 – Science – Science video experiment)

Results Table:

Material	Soluble or insoluble?

Conclusion:
