

Which materials can be changed back to their original form?

Autumn 2023

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In our first lesson we recapped what we had learnt linked to this topic before and then explored materials - comparing and grouping them according to their properties.



We learnt what reversible and irreversible changes are and how materials can change. We observed some and then wrote about what we found out.

I found it really fun and informative.

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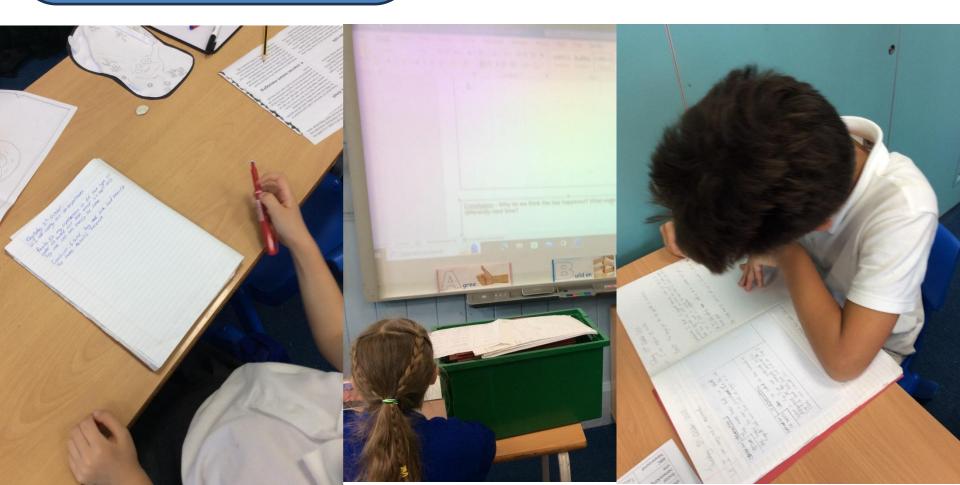
We thought more about solutions and planned an experiment to find out whether different things affect the rate at which something dissolves.

I felt that the plan was quite important as otherwise we wouldn't know what we were doing for our proper experiment. Next we thought carefully about what we would be looking for and how to record our observations. Then we carried out our experiment.



We recorded what we had found out last week – using an –er, -er sentence if we could. We also identified what we would change or investigate further.

We had to be very honest even if our prediction was wrong. But it was interesting trying to think why.



We looked at different mixtures and then we explored and considered which equipment would be best to separate them back to their original materials.





Then we tried out our ideas.

When we did the salt and water it was weird to see the salt stuck to the pan. It looked a bit like snow.





Science Year 5/6 Knowledge Organiser

Which materials can or cannot be changed back to their original form?

Key knowledge
Know about materials that can or cannot be changed back to their original form once an action has been taken
Know what a reversible change means
Know what an irreversible change means
Give examples of reversible and irreversible changes
Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution

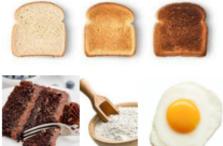
Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating

Vocabulary		
dissolve	To become broken up or absorbed by something or to disappear into something else	
solubility	Is a chemical property referring to the ability for a given substance to dissolve in a solvent	
filtering	To pass a substance through a device which is designed to remove certain particles contained within	
melting	A physical process that results in the transition of a substance from a solid to a liquid	
separating	Separate, part, and divide mean to break into parts or to keep apart	
thermal	Something that is thermal is hot, retains heat, or has a warming effect	

End Point: I can identify if and explain how a material can be changed back to their original form.

Personal development	
Children link science to everyday occurrences	

Jobs it could lead to: environmental scientist, water treatment worker





Prior Knowledge-

From science:

From other lessons:

From outside school: