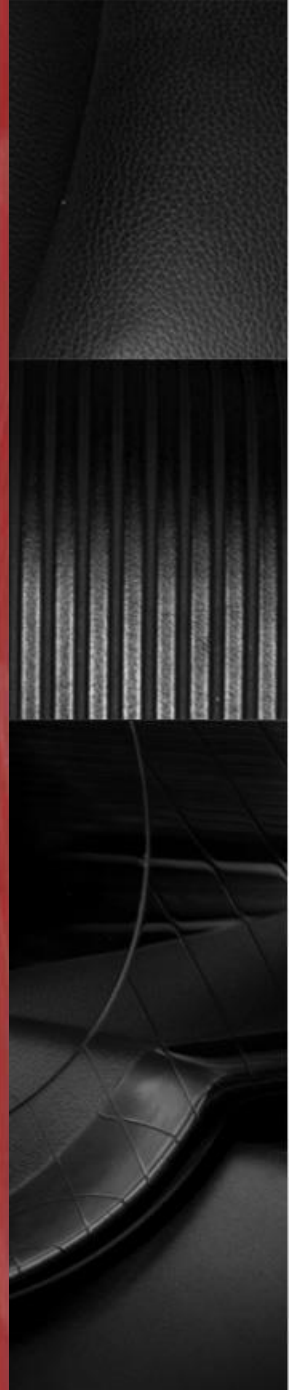


Week 3

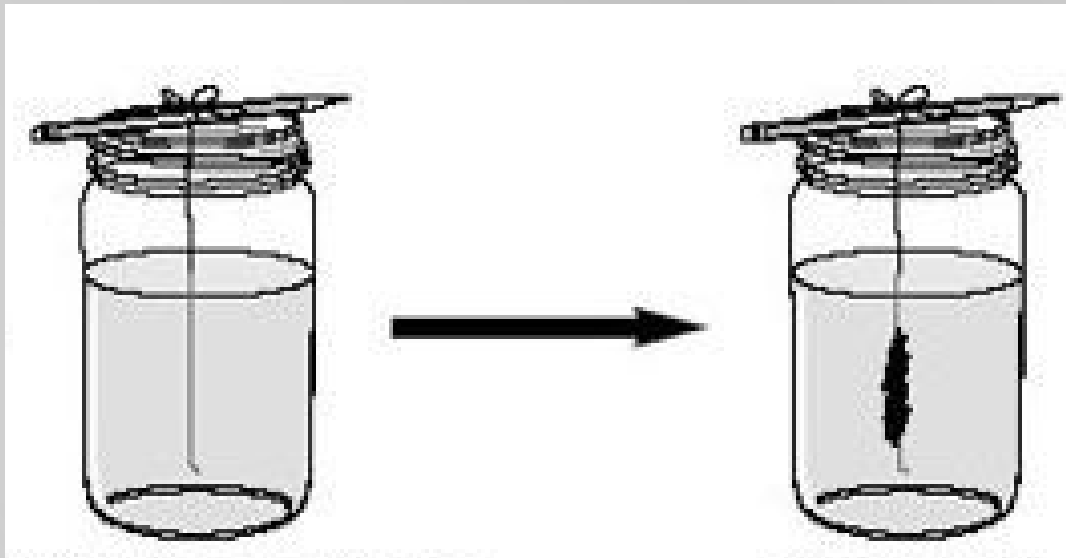
Y5 Science

Wednesday 27th January 2021

Separating Materials

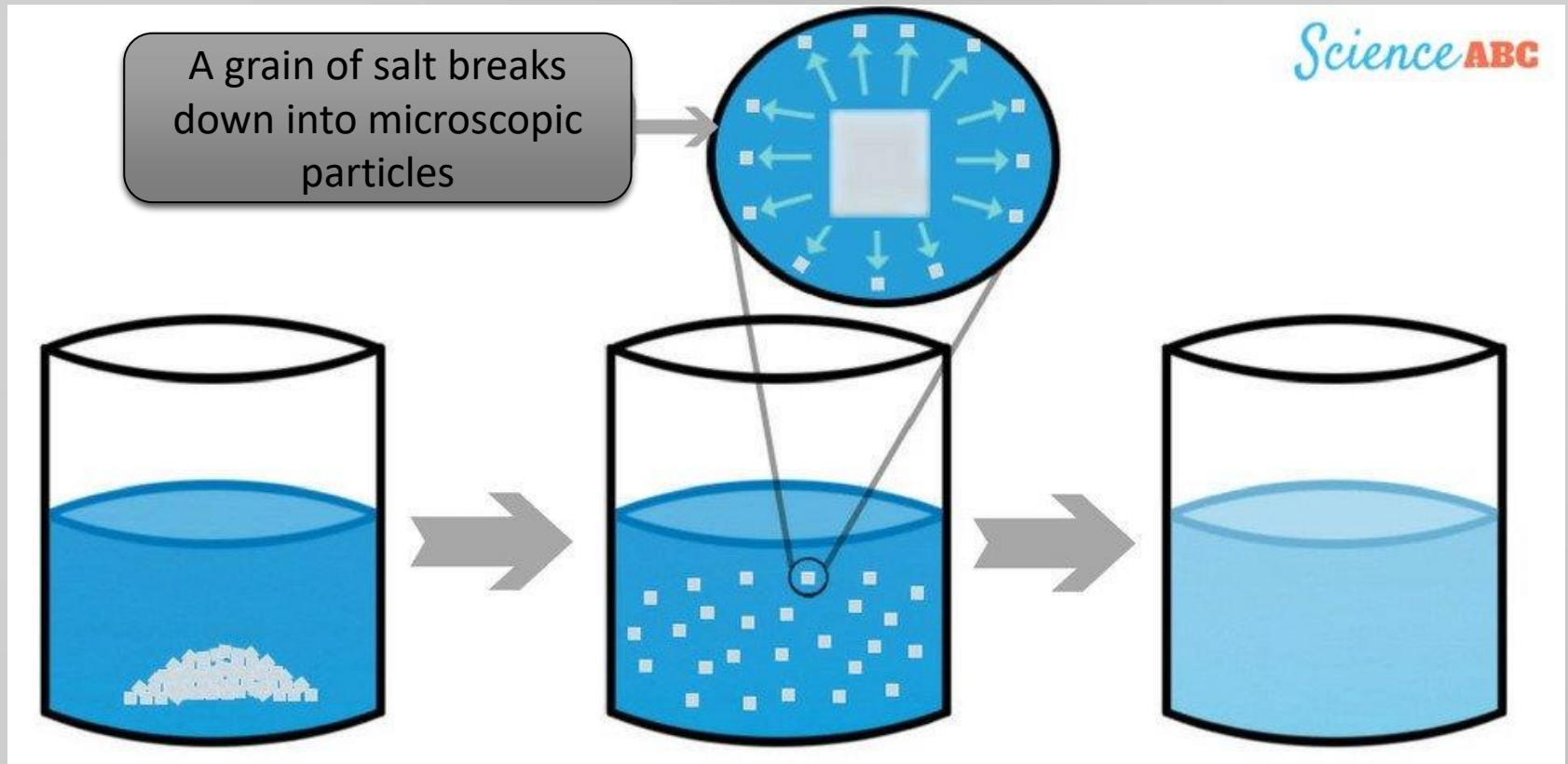


Have a look at your cup of saturated salt solution from last week. Hopefully you have some salt crystals growing now!

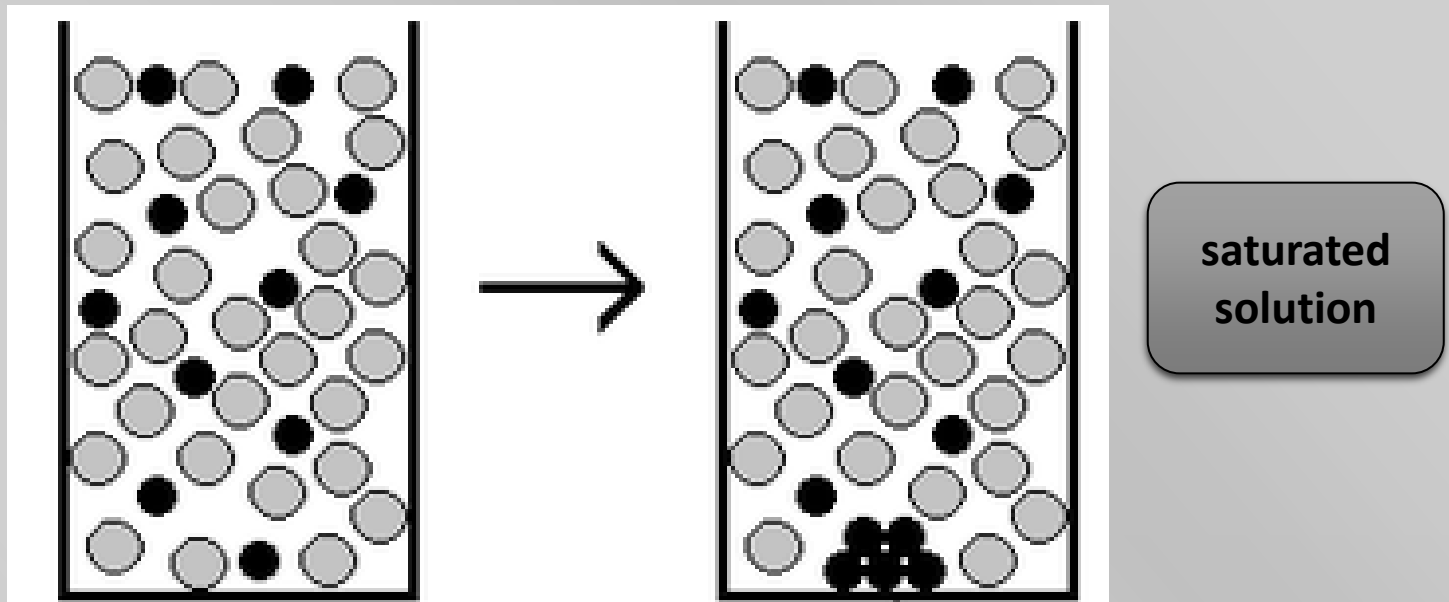


Draw a detailed diagram of your cup. Label everything you notice.

Here's what happened:



We continued adding salt to the solution until it was **saturated** (no more salt could dissolve in the water).



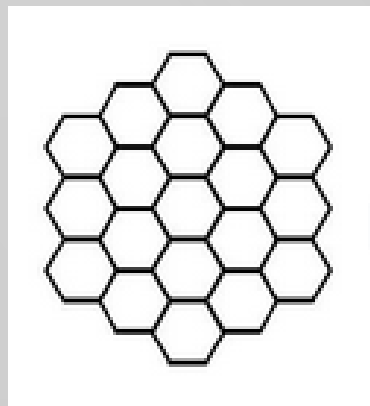
This is because there is no more 'space' for any 'larger' salt particles to break down any smaller. The larger particles stay at the bottom of the glass.

Over time, the water in the glass started to **evaporate** (change into a gas). This meant there was less water in the glass and less space for the dissolved salt particles.

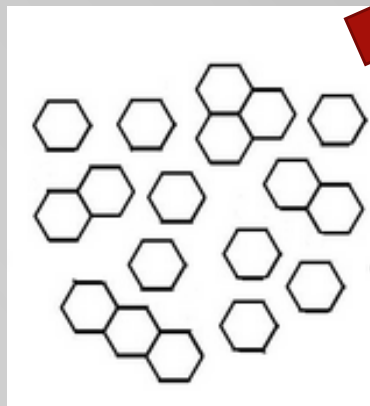
Because there was no space for the dissolved salt particles, they started to join together again to make new salt crystals.

The new salt crystals did not reform in the same way as they were originally made, so they look different. They clung to a surface (the string or edge of the glass) to make it easier to reform.

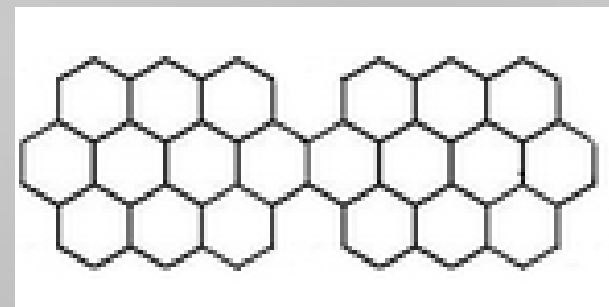
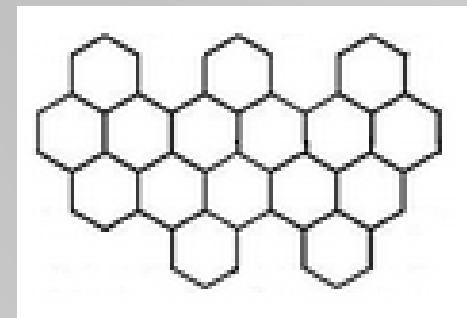
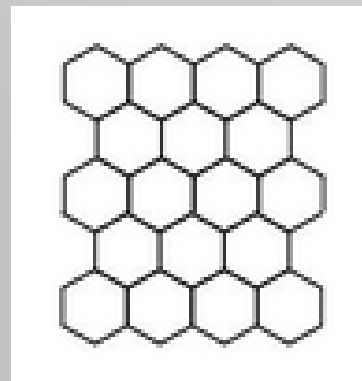
Solid salt
particle



Dissolved
salt particle



Reformed
salt crystal
particle



Your turn! Write a short paragraph OR draw a series of diagrams to show how the salt dissolved and then reformed into crystals.

Key Terminology

saturated solution

salt water

dissolve

evaporate

crystals

solid

Challenging Terminology

particles

solid

solute

solvent

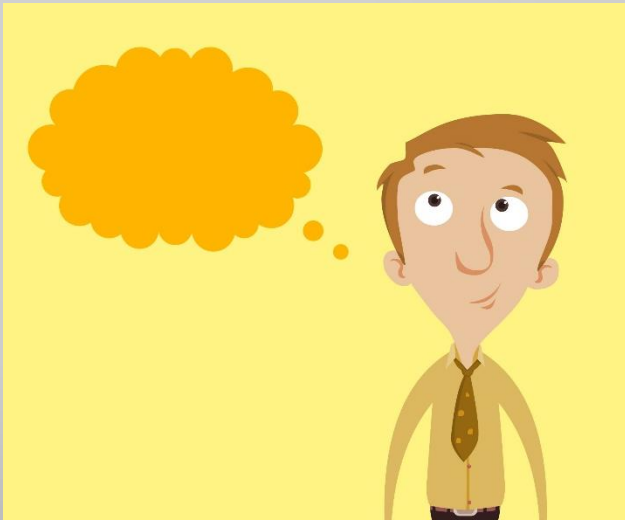
reformed

broken down

Use the slides in this lesson to help you!

This investigation has shown how you can separate salt from water using evaporation.

You have also learnt how to separate solids from each other using sieving, filtering and evaporation.



Reflect on what you have learnt in science this week.
Which activity did you enjoy most?



THIS CHALLENGE
IS OPTIONAL

Lava lamp!!



Have a go at making your own lava lamp.

Watch the video here: [Blobs in a Bottle - Make a Lava Lamp at Home - Science Bob](#)

Follow the instructions here: [Fantastic Foamy Fountain.pages \(sciencebob.com\)](#)
(these can also be found on the website)