



# Alice's Adventures in Wonderland



## ALICE INVESTIGATES DISSOLVING

### You'll need

Glass or plastic containers

Sugar

Salt

Sand

Warm water

Spoon

Timer



### Instructions

Pour 100ml cold water into one container and 100ml of warm water into a second container.

Place a teaspoon of sugar into the cold water and stir continuously. Time how long it takes for the sugar to dissolve completely.

Repeat with the warm water.

Repeat with the sand and salt.



### What's happening?

Soluble solids dissolve faster in warm water than cold water as in a warmer mixture the particles move around faster bumping into each other more.

Sugar and salt are soluble - they dissolve in a liquid

Sand is insoluble - it will not dissolve in a liquid

When the sugar and salt have dissolved they are still there (no mass has been lost). If you heated the water until it evaporated the sugar or salt would be left behind.