

Name:

## Dissolving sugar cubes

You will work with a partner during this lesson.

With your partner discuss the meanings of the following words and then the class will try to come up with definitions of each of them:

Solute

Solvent

Solution

Insoluble

Soluble

Suspension

With your partner discuss the factors which might affect the speed with which a sugar cube dissolves in water - these are the possible variables for your experiments. Try to avoid using the word 'amount'.

Variables:


Ask around the class to see if there are any others you could include in your list.

Your teacher will select one of the variables for you to investigate. You will have to keep all of the other variables constant if you want to find out how changing your factor influences the rate of dissolving.

Write down all the things you will keep the same and write down their values ('I will always use 307 litres of water' for instance).

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Write down what you will change, what values it will take and anything else you will measure.

Make a table for your results. If you have time you should repeat your measurements to improve your accuracy.

What did you find out in your experiment?

Use your knowledge of particle theory to explain what happened.