

MIXTURES OF MATERIALS

How much will dissolve?

Did you know that: that there is a limit to the mass of a solid that can dissolve in a given amount of water, and that this limit is different for different solids.

Well, there is and this is what you need to remember from today's science work.

YOUR TASK

Aim: to find out how much salt and sugar will dissolve in 60ml of water. (Copy down your aim in your science books).

1. Predict how many small measuring spoons of salt/sugar will dissolve in 60ml of water. (I thinksmall measuring spoons of salt/sugar will dissolve in 60ml of water).
2. Put 60ml of water in a transparent container.
3. Add 1 small, level measuring spoon of salt/sugar to your water at a time. Record how many will dissolve.
4. Draw a labelled diagram to show what you used and what you did. Remember, diagram in pencil, labels in pen.
5. Under the heading Method write 4 sentences describing what you did.
6. Under the heading Results, write down what happened in your experiment.
7. Under the heading Conclusions, write down what you found out. (I found out that the amount of salt that will dissolve in 60ml of water is different/the same as the amount of sugar that will dissolve in 60ml of water).

Brain teasing questions

1. Using the results from the whole class, calculate the average number of measuring spoons of salt that would dissolve in 60ml of water.
 2. Do the same for sugar.
- (Average = total number of measuring spoons divided by the number of groups).

Recording sheet

Aim

We wanted to find out how much _____ and _____ would dissolve in 60ml of _____.

Method

We measured 60ml of water into a see through plastic _____. Next we added one small measuring _____ of salt or sugar to see how much would _____.

Results

We dissolved _____ measuring spoons of salt and _____ measuring spoons of sugar.

Conclusions

We found out that the amount of salt that would dissolve in 60ml of _____ was * _____ * the amount of sugar that would dissolve.

Word Bank

Salt

sugar

dissolve

pot

water

different to *the same as* *less than*