

How soluble is it?

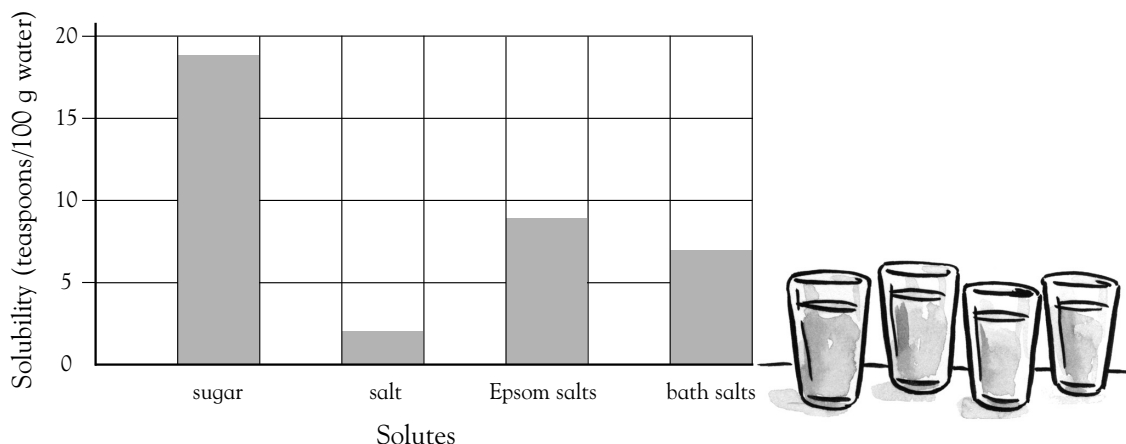


Background knowledge

All soluble substances do not dissolve equally well. Sugar dissolves very easily, while other substances, such as salt, dissolve less easily. The amount of solute that will dissolve in a solvent is a measure of its *solubility*.

Science activity

Below is a graph showing the solubility of different substances.



About how many teaspoons of salt dissolve in the water?

About how many teaspoons of bath salts dissolve in the water?

Another substance is more soluble than bath salts but less soluble than Epsom salts. What range of teaspoons would you expect to dissolve?

List the solutes in the bar graph in order of their solubility.
Write the name of the most soluble substance first.

.....

Science investigation

Does the size of a sugar particle affect its solubility? Obtain sugar cubes, powdered sugar, and granulated sugar. Design and conduct an experiment to see which type of sugar is most soluble.



How soluble is it?

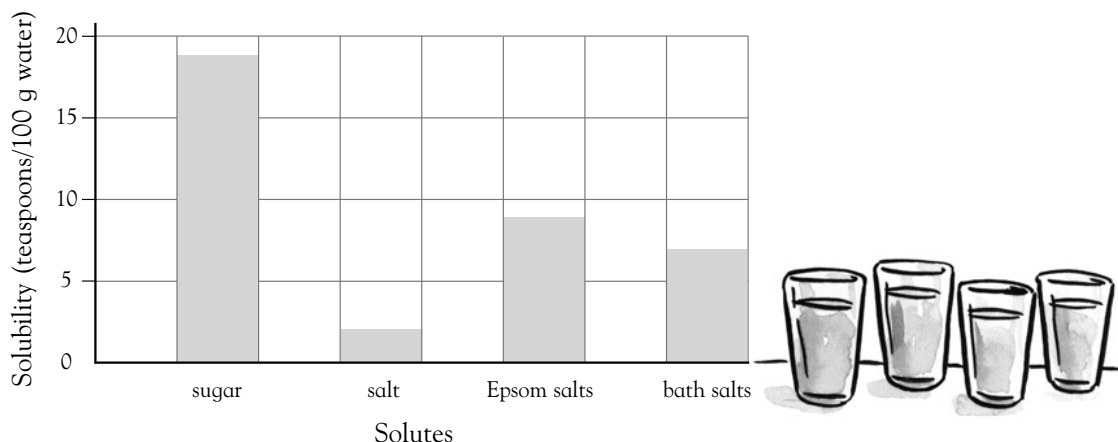


Background knowledge

All soluble substances do not dissolve equally well. Sugar dissolves very easily, while other substances, such as salt, dissolve less easily. The amount of solute that will dissolve in a solvent is a measure of its *solubility*.

Science activity

Below is a graph showing the solubility of different substances.



About how many teaspoons of salt dissolve in the water?2.....

About how many teaspoons of bath salts dissolve in the water?7.....

Another substance is more soluble than bath salts but less soluble than Epsom salts. What range of teaspoons would you expect to dissolve?7-9.....

List the solutes in the bar graph in order of their solubility.

Write the name of the most soluble substance first.

.....sugar..... Epsom salts..... bath salts..... salt.....

Science investigation

The child should place the samples of sugar in water, then time how long each takes to dissolve. The larger the particle of sugar, the longer it will take. Children often confuse dissolving with melting. Sugar does not melt in the water; it dissolves.

