

Year 6 Science Activity Instructions - Investigation on Dissolving

You can choose to find answers to any of the questions below:

1. What substances dissolve?
2. Which one dissolves more, sugar or salt etc.?
3. What affects dissolving?
4. Which substances/solute dissolve in which solvent?
5. Does temperature affect dissolving?
6. How much of salt/sugar dissolves in a certain volume of water?

Sample methods:

1. Which substance dissolves in water?

Equipment

- Cup
- Spoon
- Salt, Sugar, Baking powder, Gravy, Washing powder

Safety

- Work on a flat surface with clear space
- Be careful with liquids to avoid spillage, and if spillage occurs clean immediately

Method

1. Measure out 25ml of water into a cup
2. Add 1 teaspoon of salt to the water
3. Stir gently, until all the salt has dissolved and no more crystals are visible
4. Repeat the experiment for Sugar, Baking powder, Gravy and Washing powder
5. Which is more soluble salt or sugar?

Equipment

- Cup
- Spoon
- Salt, Sugar
- Stirrer

Safety

- Work on a flat surface with clear space
- Be careful with liquids to avoid spillage, and if spillage occurs clean immediately

Method

1. Measure out 25 ml of water into a cup
2. Add 1 teaspoon of salt to the water
3. Stirring gently, until all the salt has dissolved and no more crystals are visible
4. Add another 1 teaspoon of salt to the salt solution and stir gently until all the salt has dissolved and no more crystals are visible
5. Repeat step 4 until no more salt dissolves
6. Record the total number of teaspoons of salt used
7. Repeat the experiment for sugar