

All mixed up!



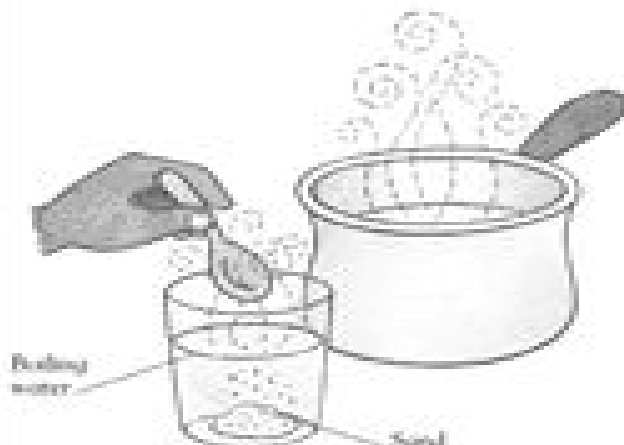
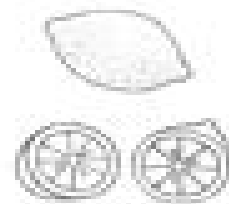
Background knowledge

When solids are added to some liquids, the solid dissolves into very tiny particles and seems to disappear. A mixture in which one material dissolves in another is called a solution. When you add sugar to a cup of tea, the sugar dissolves in the tea to form a solution. Some solids will not dissolve in liquids. For example, flour will not dissolve in water. Materials that dissolve in liquids are called *soluble*. Materials that do not dissolve in liquids are called *insoluble*. Water is a liquid that can dissolve many types of materials.

Science activity

Read the sentences below and decide which ones are true and which ones are false. Circle the right answers.

- | | | |
|----------------------------------|------|-------|
| Sand dissolves in boiling water. | True | False |
| Sugar dissolves in lemon juice. | True | False |
| Soil dissolves in water. | True | False |
| Salt dissolves in tomato soup. | True | False |
| Sugar dissolves in sand. | True | False |
| Oil is soluble in vinegar. | True | False |



Science investigation

Design and conduct an experiment to see if a sugar cube dissolves faster in hot water or cold water.

