

All mixed up!



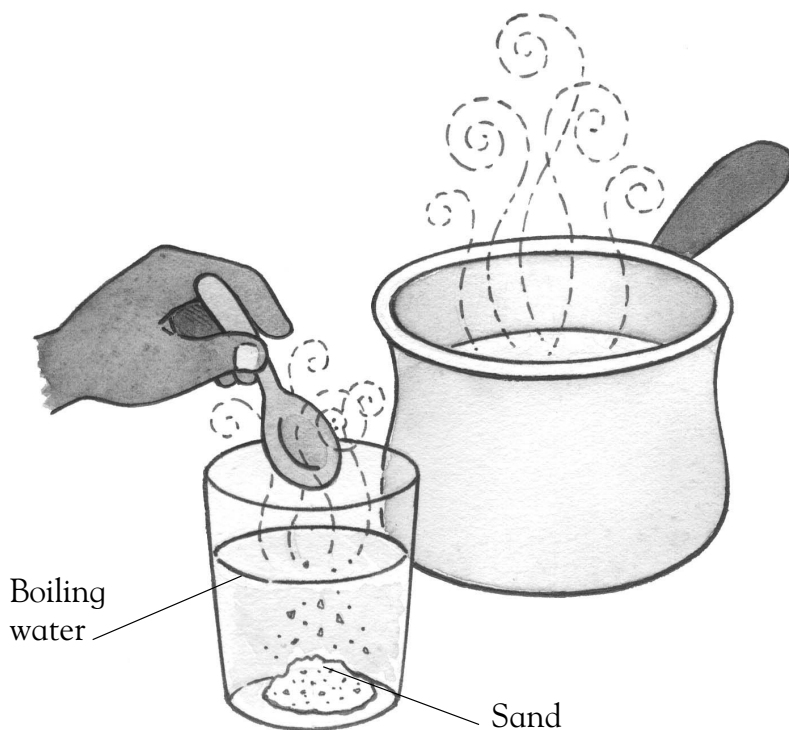
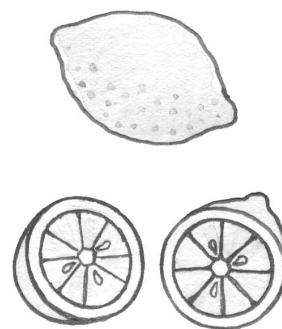
Background knowledge

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

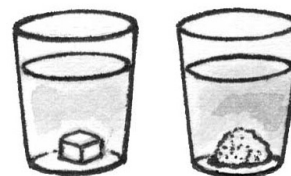
Read the sentences below and decide which ones are true and which ones are false. Circle the right answers.

- | | | |
|----------------------------------|------|-------|
| 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.



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Background knowledge

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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.

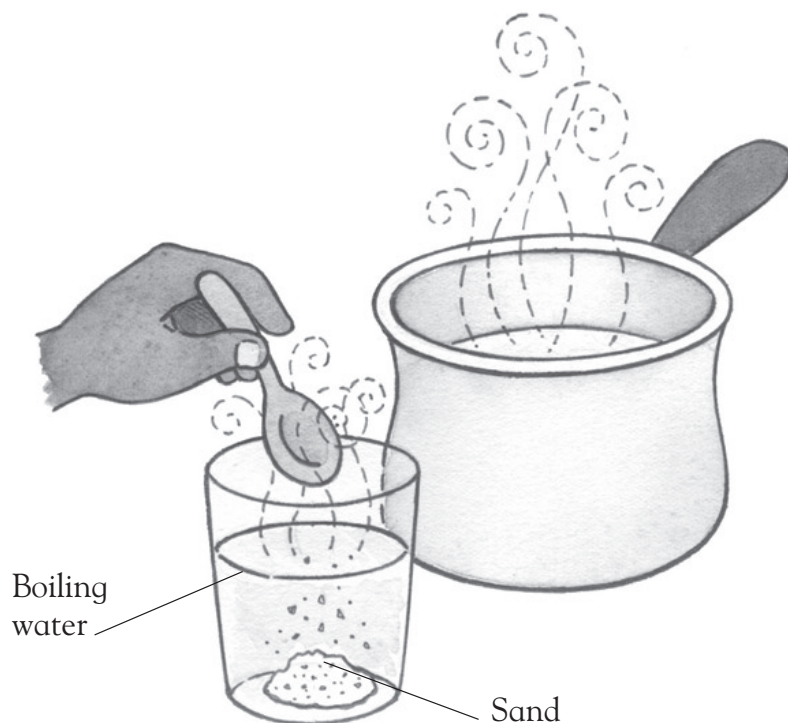
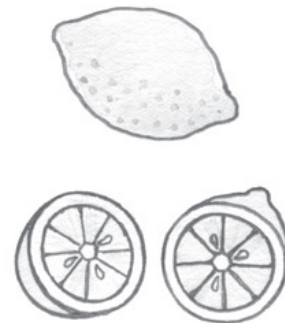
☒ True False

Sugar dissolves in sand.

True ☒ False

Oil is soluble in vinegar.

True ☒ False



Science investigation

The sugar cube will dissolve fastest in hot water. The sugar dissolves into particles that are too small to be seen, but we know they are still there because the water tastes sweet.

