

1 These sentences describe either a **solution** or a **mixture**. Cross out the wrong words.

- a** A **solution/mixture** contains several substances that have been combined and that can be separated easily.
- b** A **solution/mixture** is formed when sugar dissolves in tea.

2 Complete these sentences using the words below.

dissolved

condensed

evaporated

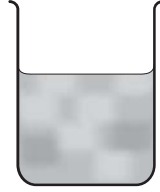
insoluble

- a** When steam turns back to water, we say it has
- b** When flour is added to water it does not dissolve, we say that it is
- c** When water turns to steam, we say that it has
- d** When salt is mixed in water it 'disappears', we say it has

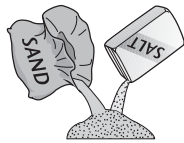
- 1 The laboratory technician is setting up the equipment for an investigation, but she has dropped the pack of labels.

Can you help by drawing lines between each diagram and its label – they have got all mixed up.

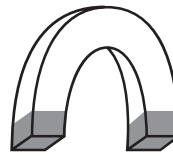
Magnet



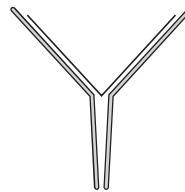
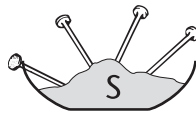
Iron and sulphur



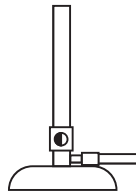
Funnel



Muddy water



Bunsen burner

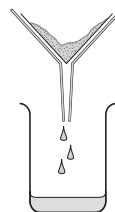


Mixture of sand and salt

- 2 We are surrounded by mixtures. The air that we breathe is a mixture of different gases. Sea water is a mixture of many dissolved solids.

The pictures below show the different pieces of equipment you can use to separate mixtures. Label the pictures by drawing lines between each picture and its label.

Filter funnel and paper



Bunsen burner, tripod
and evaporating basin



Sieve

- 3 Here is a list of mixtures. Which piece(s) of equipment in question 2 could you use to separate each one?

Write the correct piece(s) of equipment in the box next to each mixture.

a salt from water

b water from a muddy puddle

c flour and rice

- 4 If a substance is **soluble** it will dissolve in water. Salt dissolves completely in water to make a solution.

Underline the soluble substances in the list below:

sugar salt oil ink sand soil

flour wax

- 5 If soil is added to water it will not **dissolve**. It is insoluble.

Circle the insoluble materials in the list above.