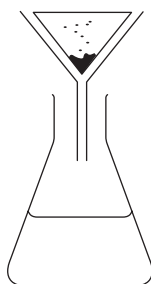


Worksheet 2.2

Separating mixtures

1 This apparatus can be used to separate a mixture of sand and salt.



a i What is this process called?

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ii What is the general name for the solid collecting in the funnel?

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iii What is the general name for the liquid which collects in the flask?

.....

b Write a set of instructions to show exactly how this separation should be done.

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- c To complete the process, you will need to remove the salt from the water. Explain, using a diagram, exactly how this would be done and what the process is called.

2 Complete these sentences using the words below to fill the gaps.

compound atoms different element

All substances are made from There are over 90
..... kinds of atom. A substance made from only one kind of atom is
called an

A substance made from two or more different types of atoms chemically bonded together is
called a

3 a Rearrange these sentences to explain how water molecules behave in water vapour and how this turns to water as it cools. Copy the sentences out in the correct order.

At or below 100 °C, the particles stick together if they collide.

The water molecules in steam are far apart and moving very fast.

The steam condenses.

At temperatures above 100 °C, if the molecules collide, they simply bounce apart again.

Clumps of particles stick together and collect, forming liquid water droplets.

As the steam cools, the particles slow down.

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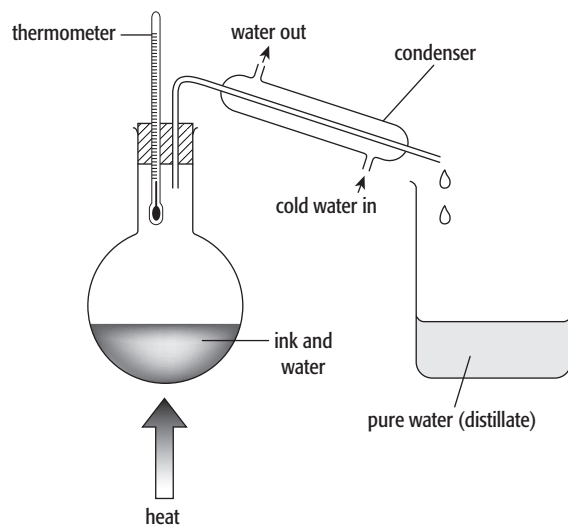
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b The apparatus below is used to separate a mixture of two substances, such as water and ink dye.



i What is the name of this process?

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ii What is the purpose of the thermometer?

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iii What is the purpose of the cold water running through the outer jacket of the condenser?

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