TASK 5

INSTRUCTIONS

Hello 6th graders! Follow these steps:

- **Step 1** : Watch and listen to this video:

  https://drive.google.com/file/d/1nlZ6hZ0HRX_r7DTmJnr7VDKPsdI98Egp/view?usp=sharing

- **Step 2** : Read the PWP slides again.

- **Step 3** : Do **UNIT 4** lesson 3 and 4 activities' of your online **Activity Book – Module 2**.

WHAT IS A MIXTURE?

A MIXTURE IS...

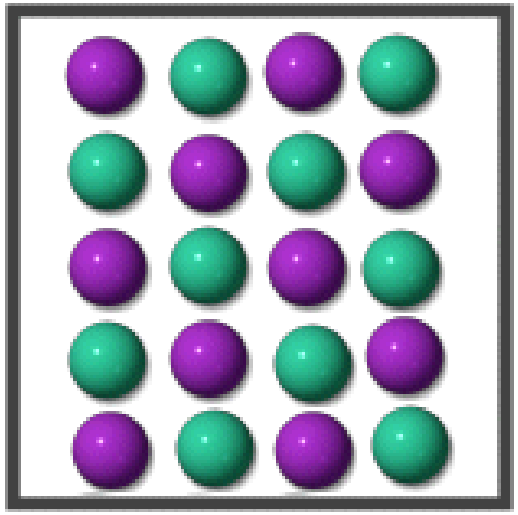
A **substance** made up of two or more types of matter that aren't chemically combined.

- ✓ The components of a mixture can be easily SEPARATED.
- ✓ The components each keep their ORIGINAL PROPERTIES.
- ✓ The quantity of the components is variable.

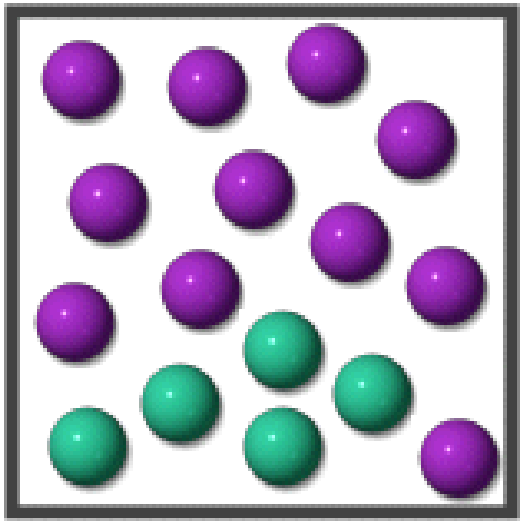
There are two main categories of mixtures.

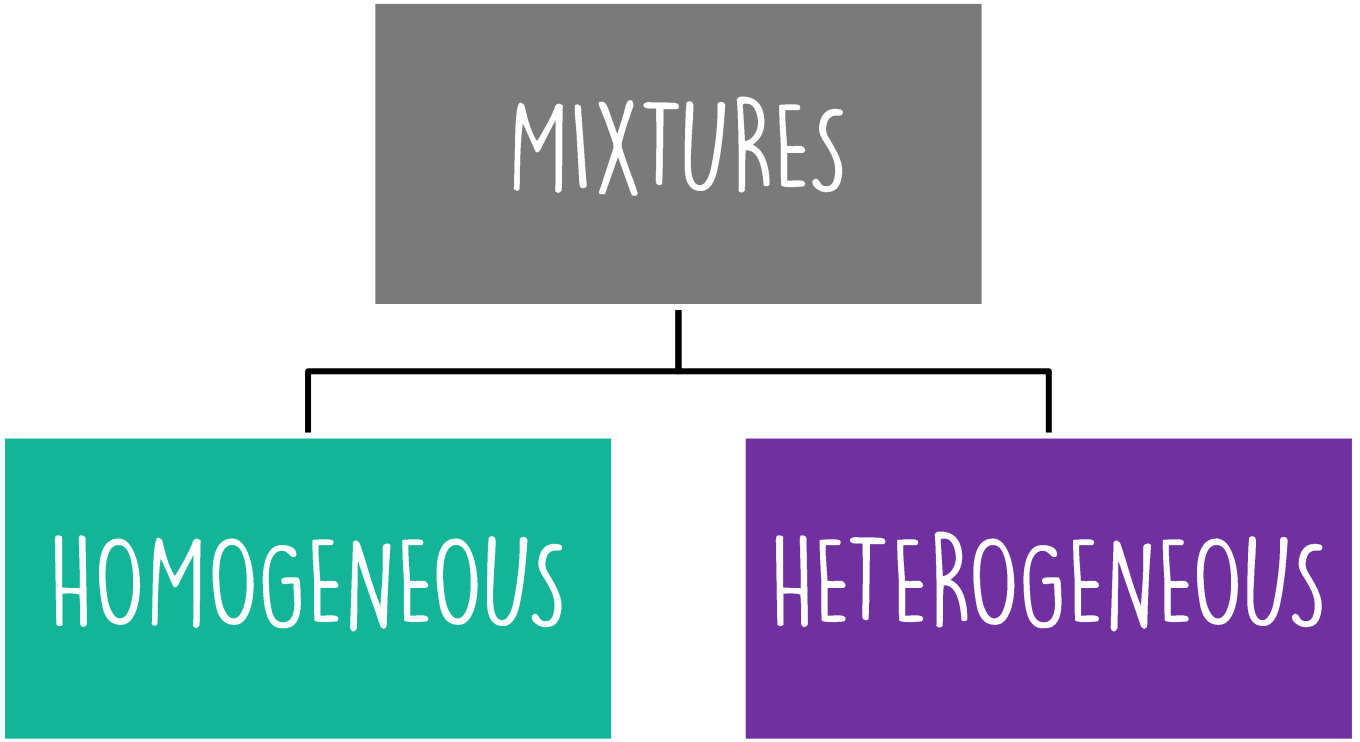
MIXTURES

HOMOGENEOUS



HETEROGENEOUS





CONSISTENT

colour and

texture.

VARIED

colour and

texture.

Are they

HOMOGENEOUS

or

HETEROGENEOUS

mixtures?

HOMOGENEOUS

HETEROGENEOUS

WHAT IS A SOLUTION?

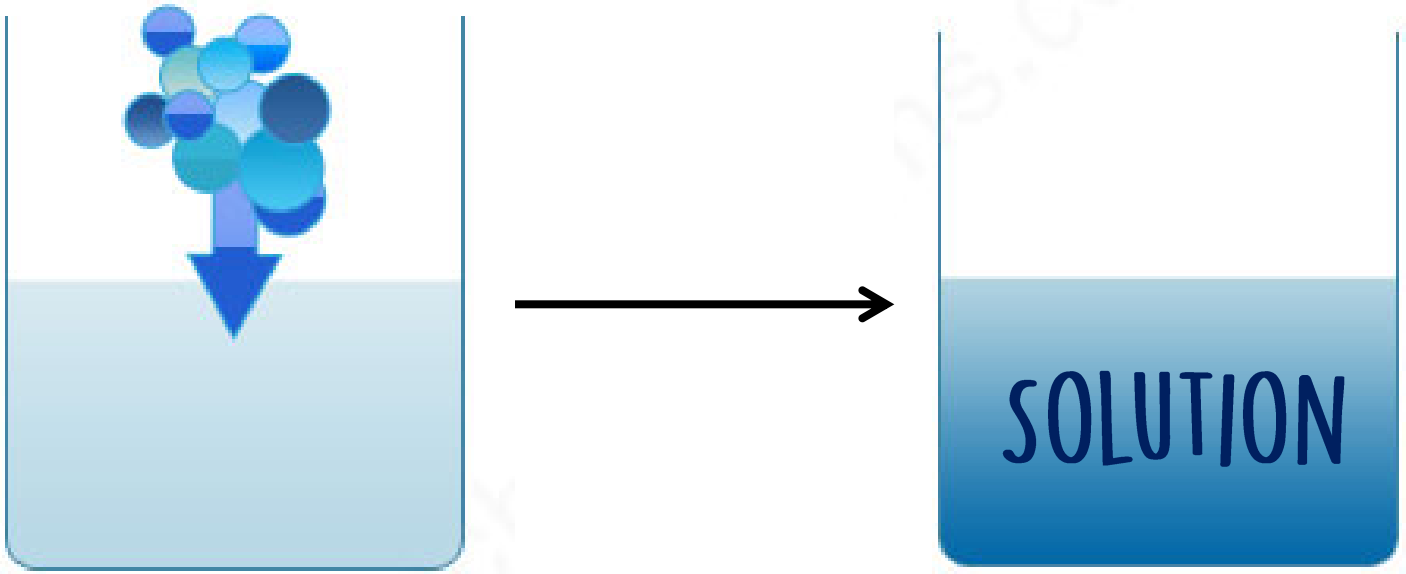
A SOLUTION IS...

A **solution** is a mixture of one or more liquids with one or more substances that are **dissolved** in the liquid.

SOLVENT: the substance that dissolves.

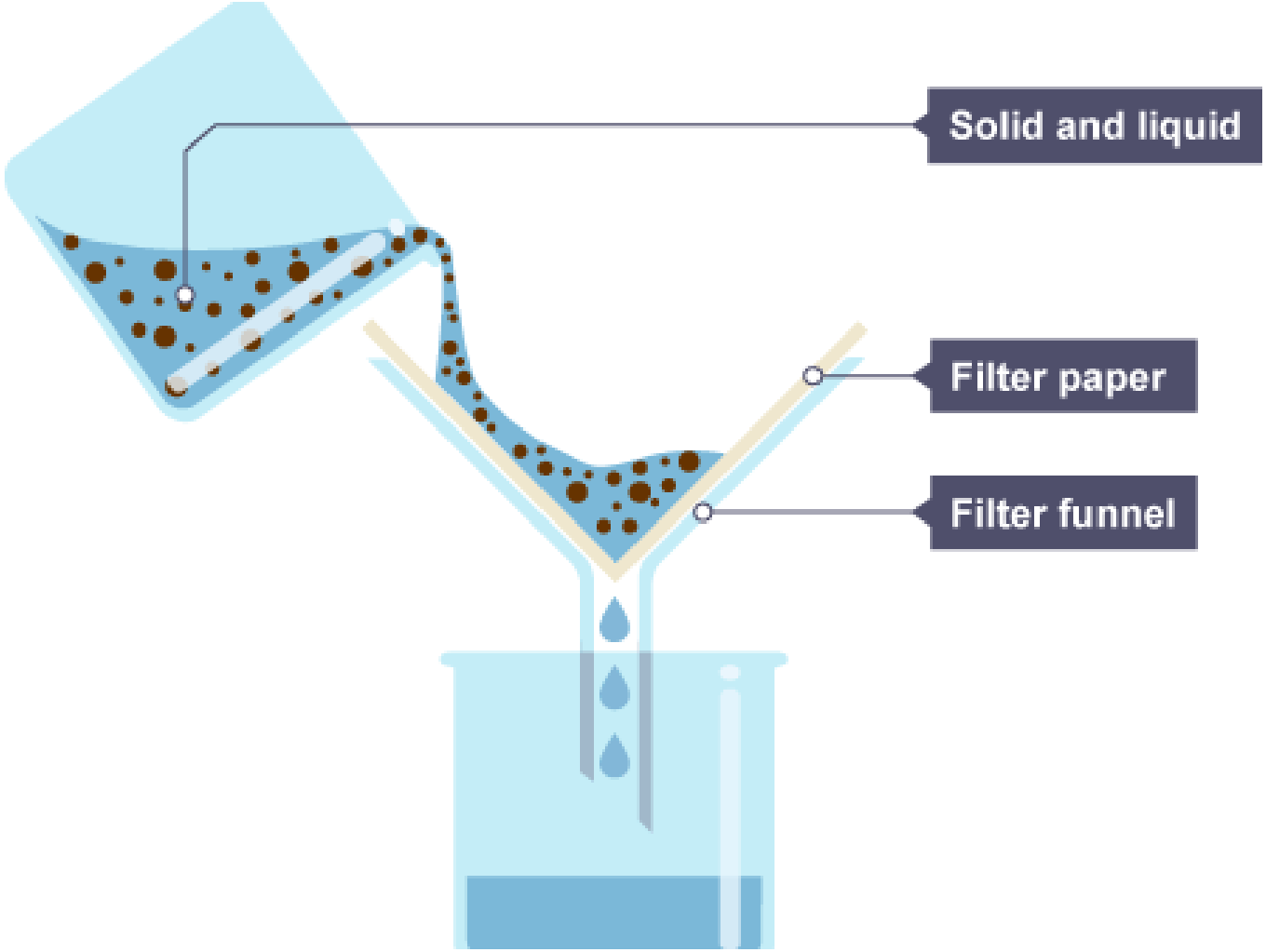
SOLUTE: the dissolved substance.

SOLUTE



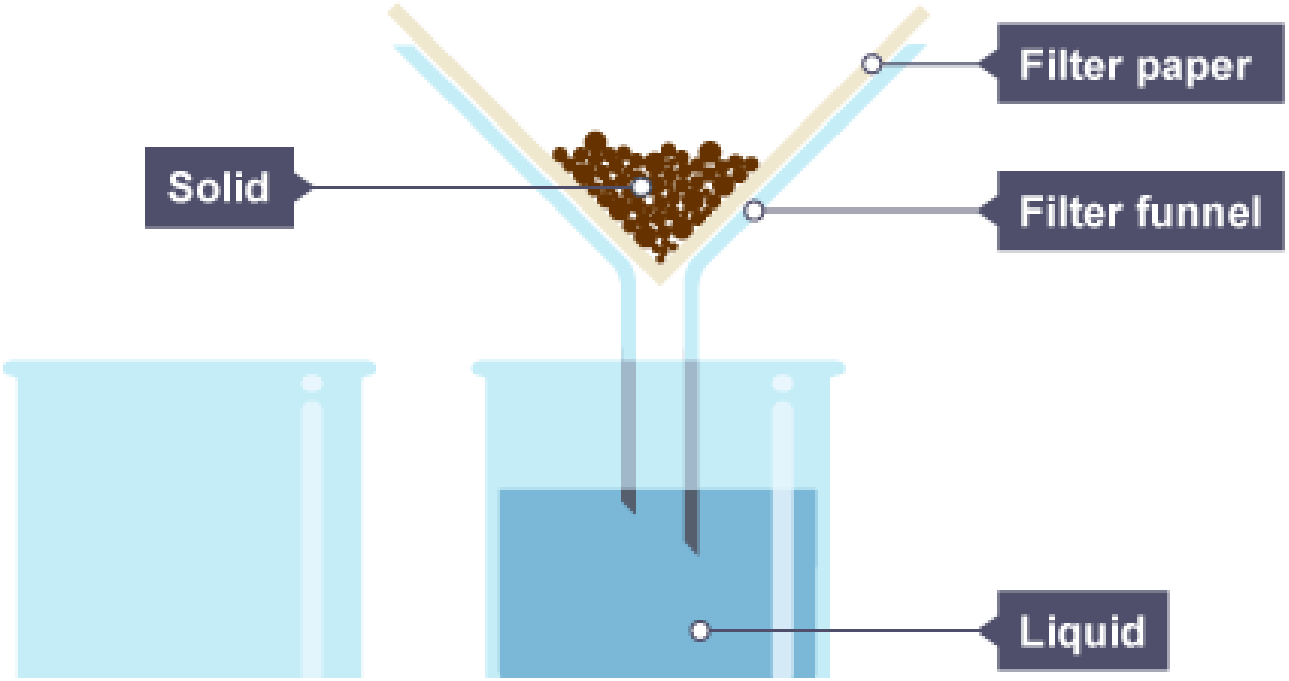
SOLVENT

SEPARATING MIXTURES



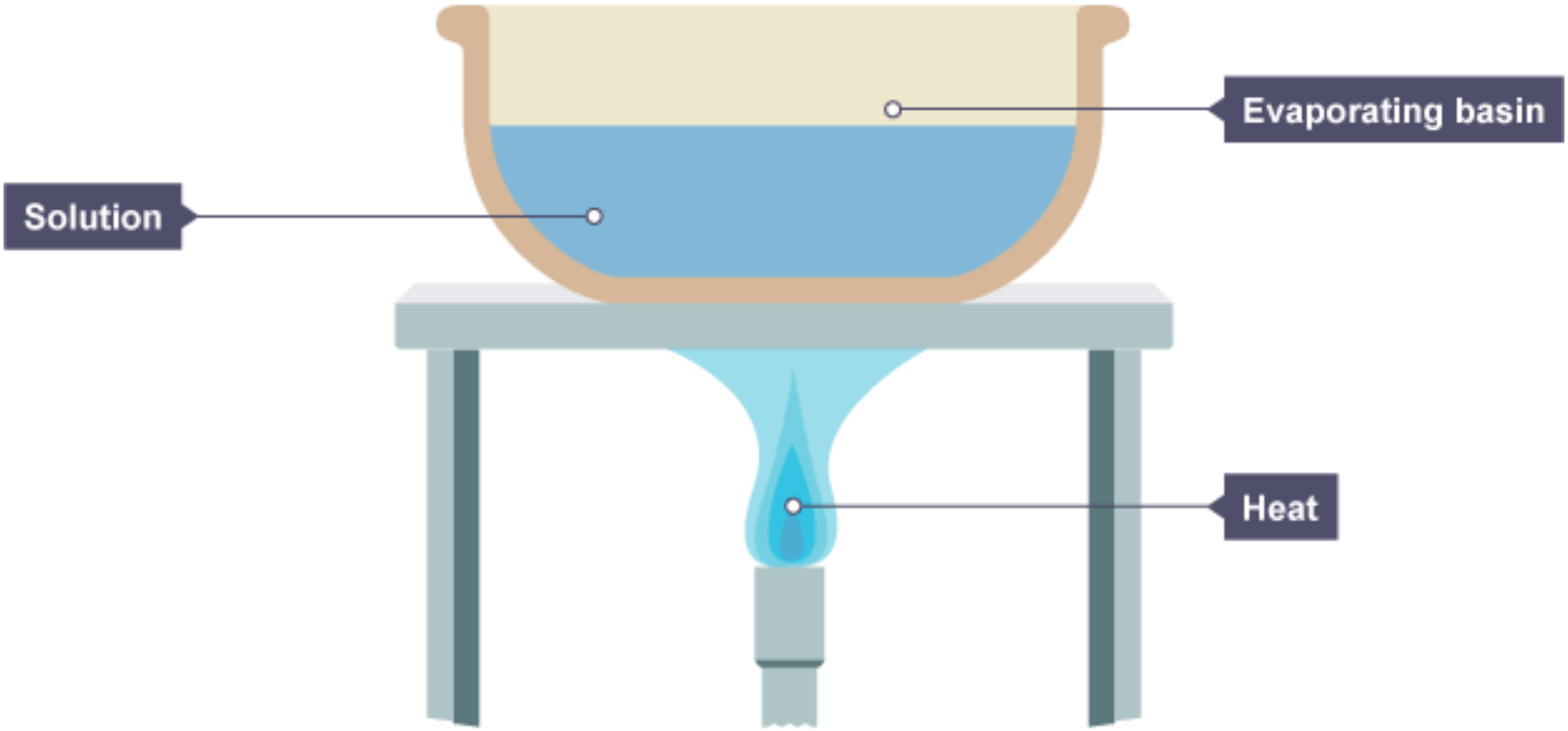
FILTRATION

is used to separate an insoluble solid from a mixture.

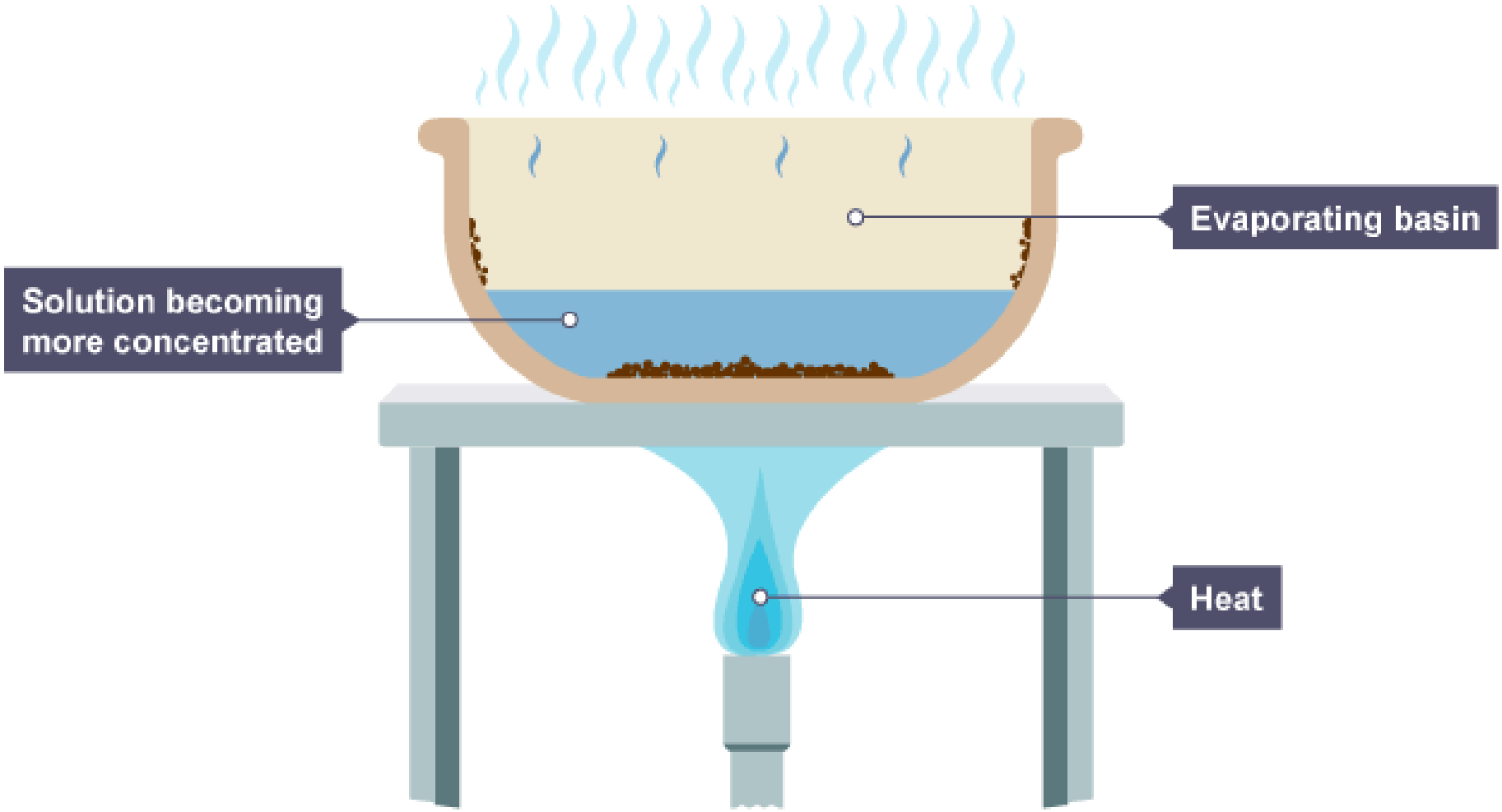


FILTRATION

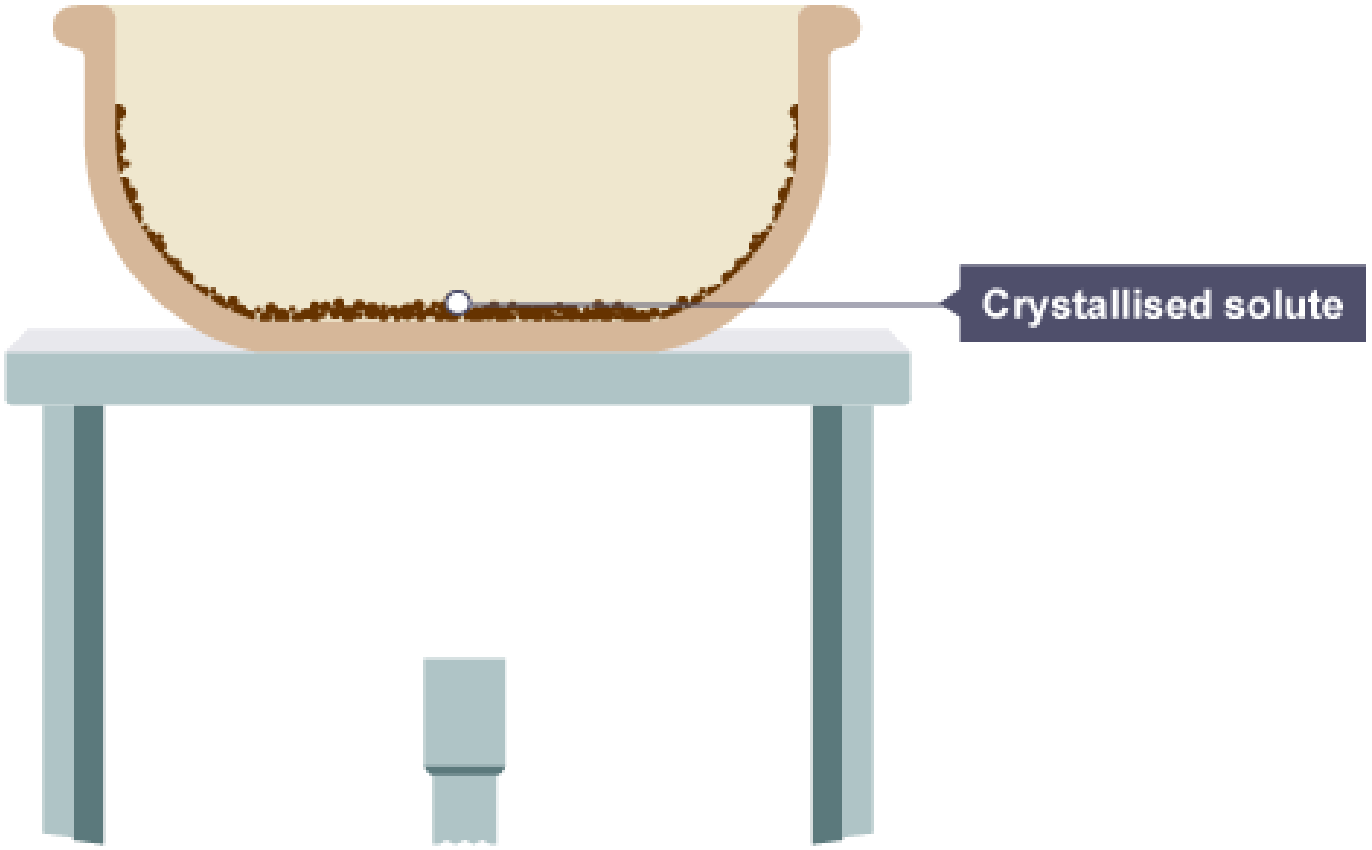
As the mixture passes through the filter, the solid particles are trapped in it.



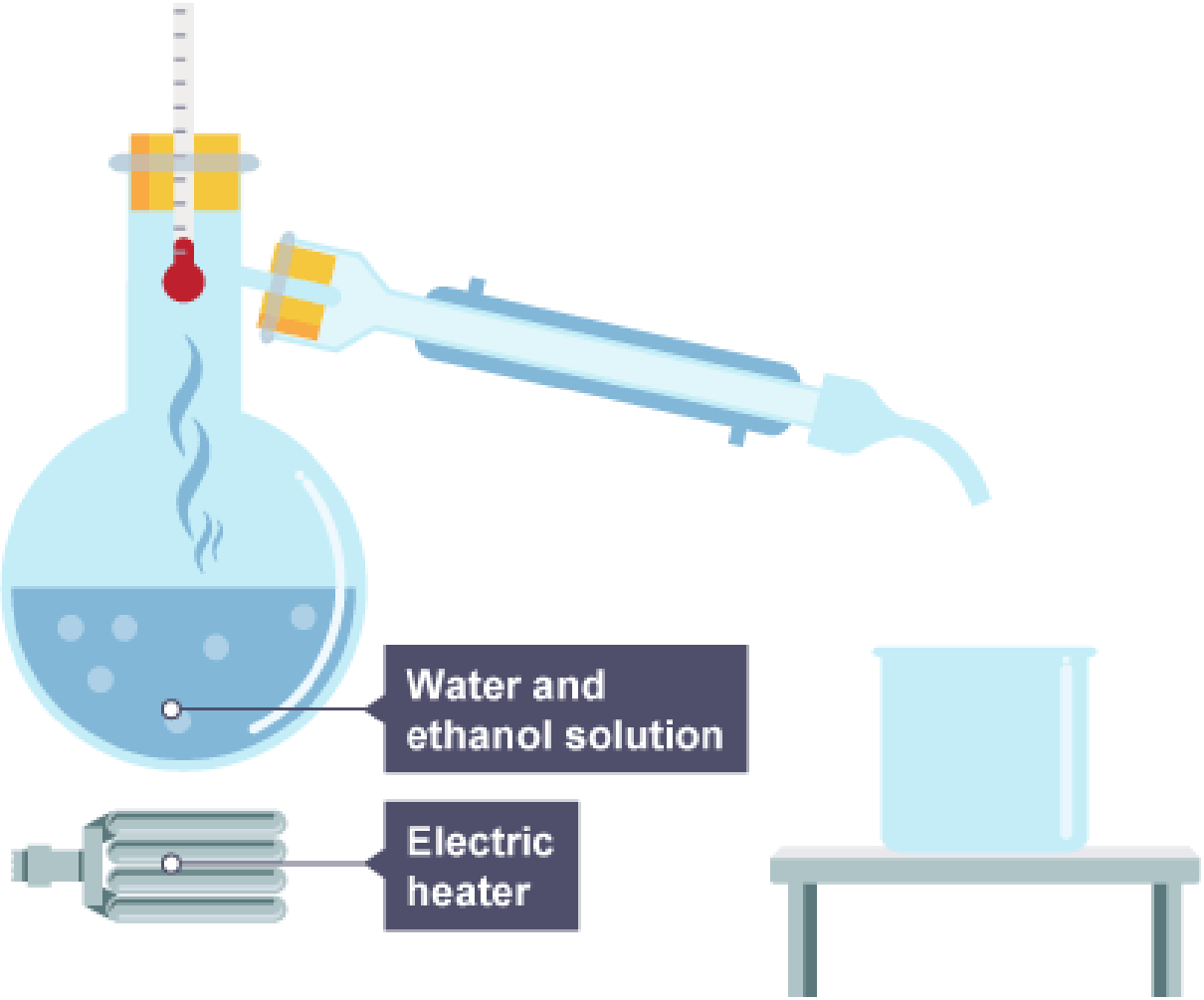
EVAPORATION is used to separate a soluble solid from a liquid.



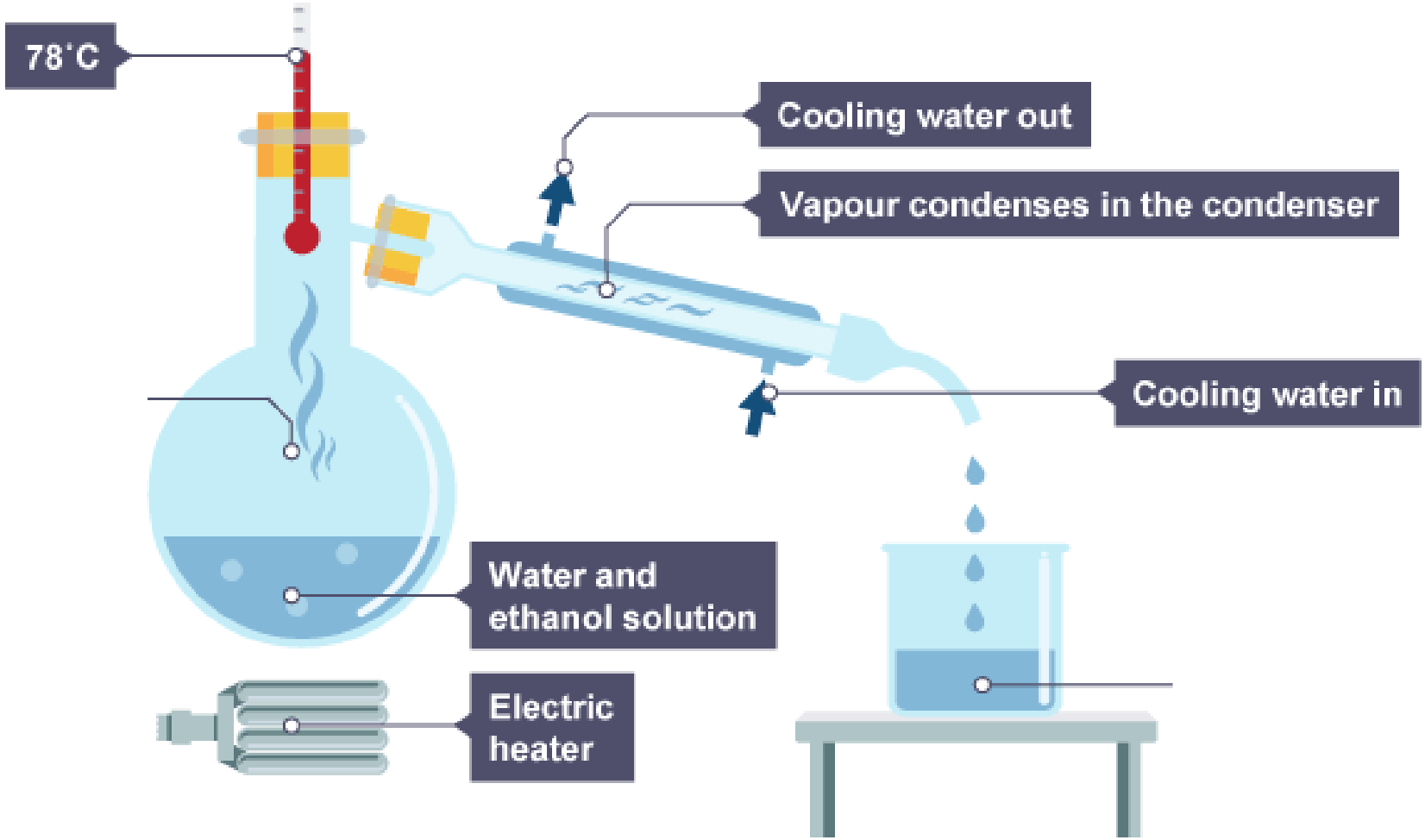
EVAPORATION



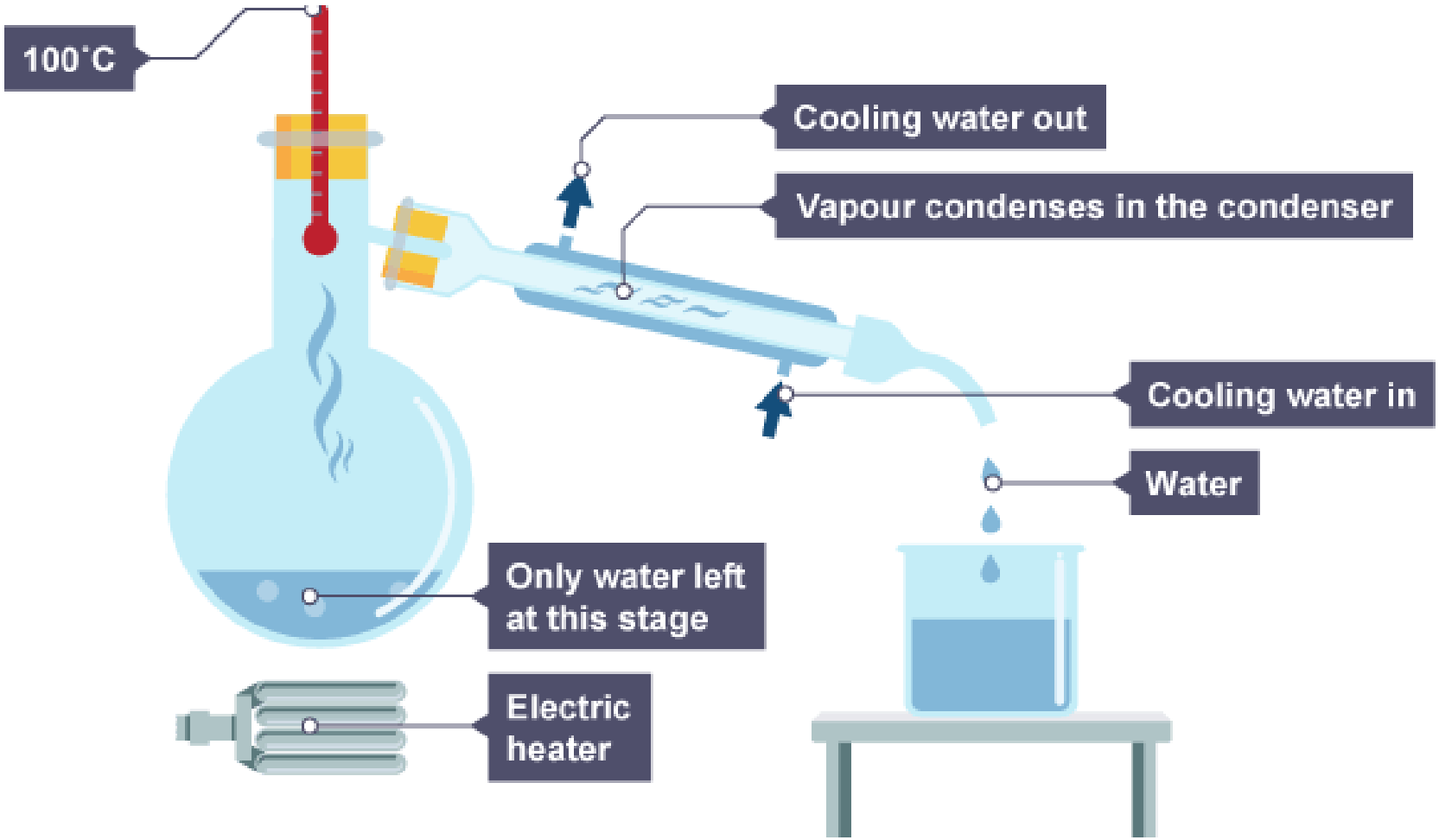
EVAPORATION



DISTILLATION is used to separate a liquid from a mixture of two or more liquids.



DISTILLATION



DISTILLATION

DISSOLUTION is used to separate a soluble solid from an insoluble one.

E.g. Sand and salt mixture

To separate a mixture using dissolution, follow these steps.

1. Add water to the mixture to dissolve the soluble solid.
2. Filter the mixture to separate the soluble solid from the insoluble one.
3. Evaporate the remaining solution to separate the soluble solid from the water.

SCIENCE DEPARTMENT

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