

TOPIC 4.

SEPARATION TECHNIQUE

(FILTRATION & EVAPORATION)



* **STEP 1: Click on the video below before answering the questions** 



* STEP 2: Read the information on Filtration

• FILTRATION

- Filtration is used to separate an insoluble solid from the liquid in a mixture
- Insoluble solid: Sand / Calcium carbonate
- Liquid: Water

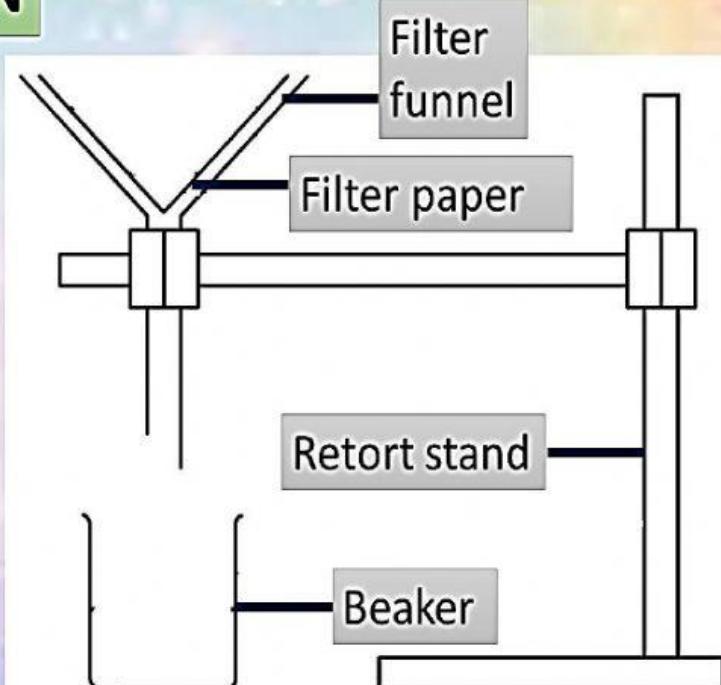


4.3
SEPARATION
TECHNIQUE

Disclaimer: Most of the pictures and gifs used in the video are taken from the internet

• FILTRATION

- How to set up filtration



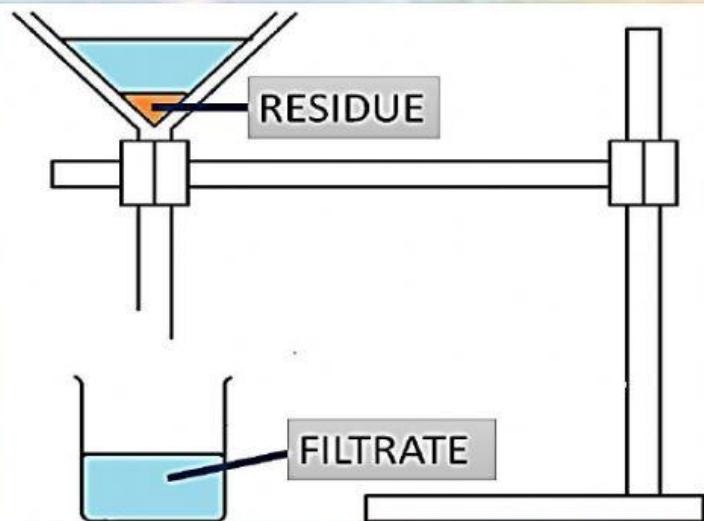
4.3
SEPARATION
TECHNIQUE

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• FILTRATION

➤ Sand is the **RESIDUE**

➤ Water in the beaker is the **FILTRATE**



4.3
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• FILTRATION

➤ **Uses of filtration in everyday life**

✓ Used in water treatment to remove solid slit and sand particles from water

✓ Used in textile industry to treat their waste water before recycling for further use



4.3
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* STEP 3: Answer the following questions

1. Label the diagram below using the given words below:



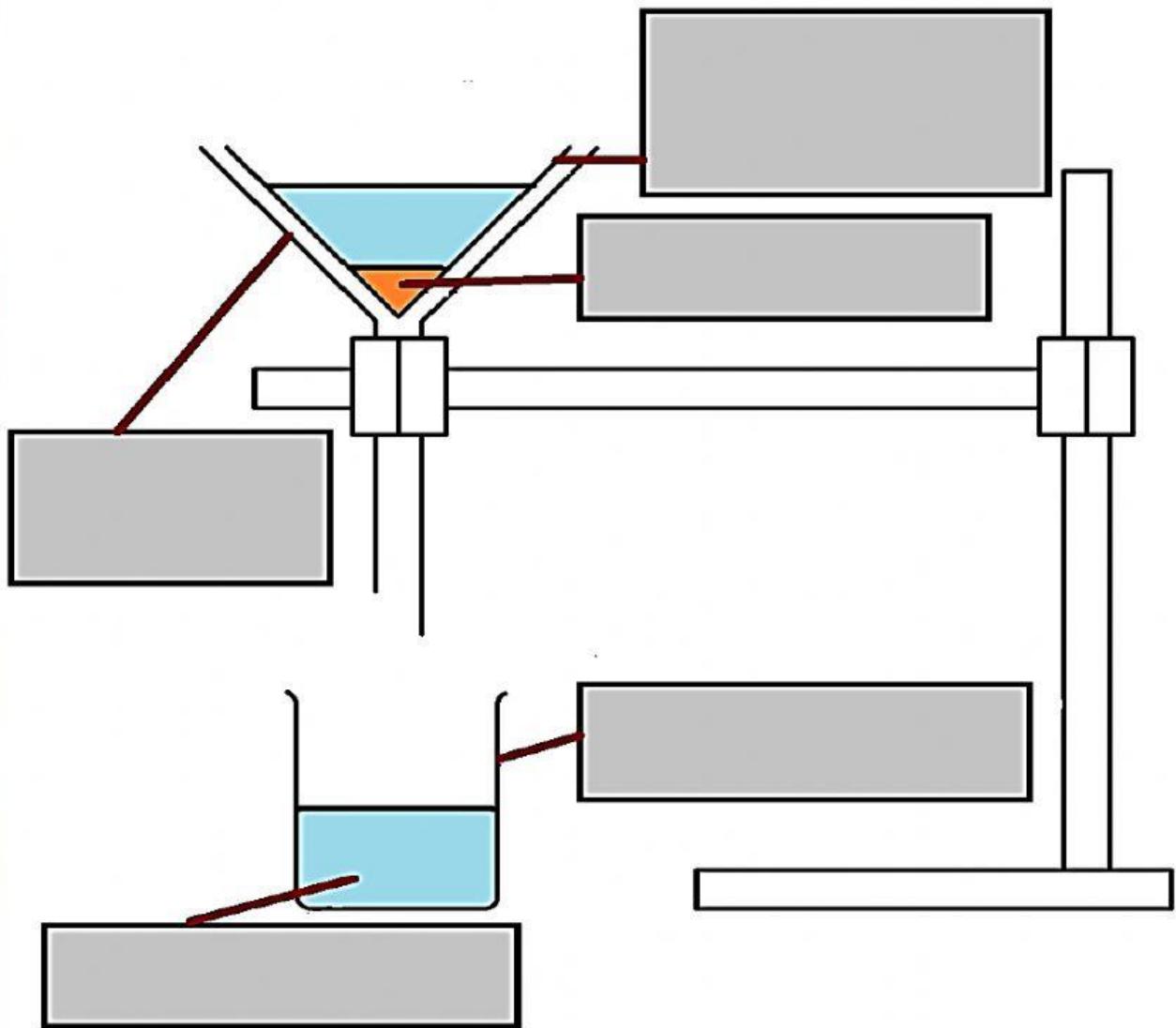
Filtrate

Residue

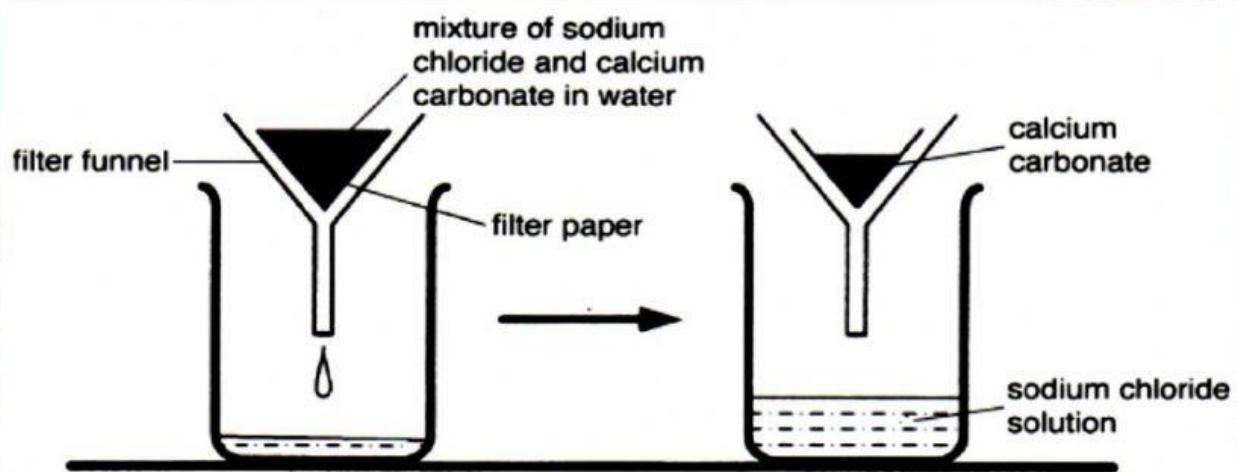
Filter
Paper

Filter
funnel

Beaker



2. Figure below shows how a mixture of sodium chloride and calcium carbonate in water is separated.



Use the labelled diagrams and the helping words to complete the following passage.

filtration

filtrate

residue

insoluble

soluble

Sodium chloride solution passes through the filter paper and this solution is known as a _____.

Calcium carbonate is left behind on the filter paper and it is known as a _____.

From this experiment, we can conclude that sodium chloride is

_____ in water and calcium carbonate is

_____ in water.

This method of separation is known as _____.