

The Primary Stage of Grades (4-5) School Year 2022-2023

Name:

Subject: Science

Date: / /

Chapter 5 Revision worksheet

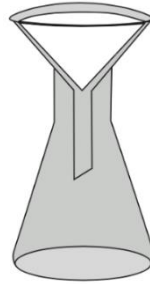
Class: Grade 4 CP (All sections)

Question 1:

1. Raj mixes salt in a glass of water.

He wants to separate the mixture and get back the salt.

He does this using the apparatus shown in the picture.



This apparatus **cannot** be used to separate the solution of salt and water. Explain why.

.....
.....

2. Edward heats a pot of water.

Describe what happens to the temperature of the water when it reaches 100°C.

.....
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Question 2:

The table shows the properties of some substances.

Substance	State at room temperature	Color	Does the substance dissolve in water?
A	Solid	White	No
B	Solid	green	Yes

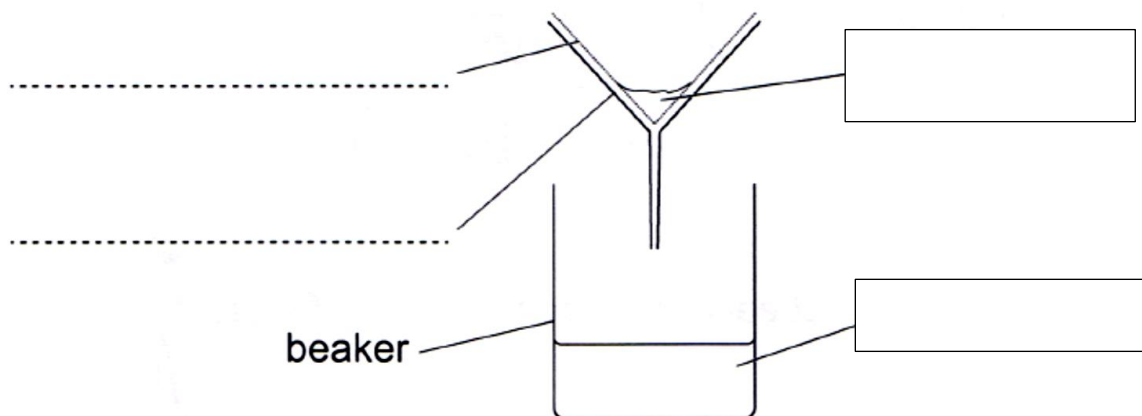
Adam has a mixture of **A, B**.

He wants to separate the mixture.

He adds the mixture to water and stirs it.

He then filters this mixture using this apparatus.

a) Label the following filtration diagram.



b) Which substance is the **residue**?

c) What does the **filtrate** contain?

d) What colour is the filtrate?

Question 3:

when a substance is mixed with water it may dissolve.

Complete the sentences about adding substances to water using the words below, you can use each word once:

soluble	evaporates	solution	solute
insoluble	solubility	solvent	dissolves

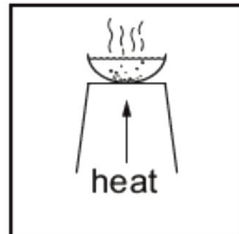
- a) The mixture of a substance dissolved in water is called a
- b) A substance is dissolved in water. This substance is called
.....
- c) A substance that can dissolve in water is
- d) The liquid at which a solid dissolve is called a
- e) When all water from the salt solution, salt is left
behind.
- f) Sand does not make a solution when mixed with water because it is
.....

Question 4:

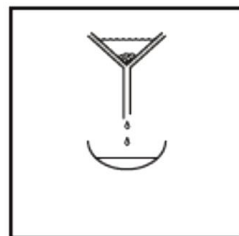
Steps **B** and **F** are processes.

Draw a line between the **step** and the **process** that happens.

step



B



F

process

condensation

dissolution

evaporation

filtration

Question 5:

Classify the following substances into soluble and insoluble in water.

Clay Flour Sand Sugar Chalk Salt

Soluble	Insoluble

Question 6:

Sugar dissolves in water to form a colourless solution.

(a) What is the name of the **solvent** in this colourless solution?

.....

(b) The solution is left in a warm room for 10 days.

After 10 days all the water has disappeared.

What has happened to the water?

.....

(c) After 10 days a solid is left behind.

What is the name of the **solid** left behind?

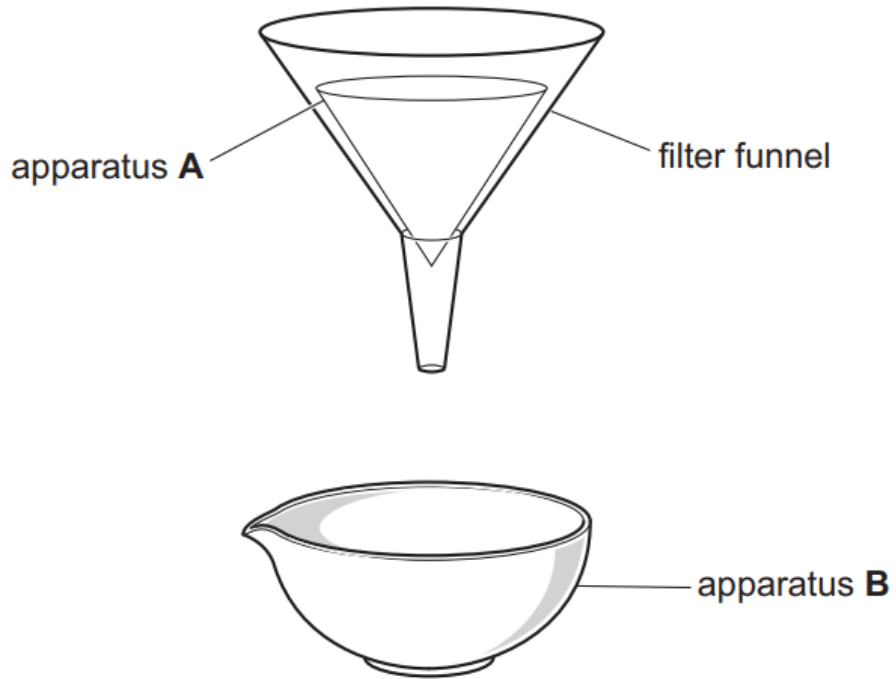
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Question 7:

Carlos has a mixture of sand, salt and water.

He wants to separate the mixture.

Here is some of the apparatus that Carlos uses.



(a) What is the name of apparatus **A**?

.....

(b) What is the name of apparatus **B**?

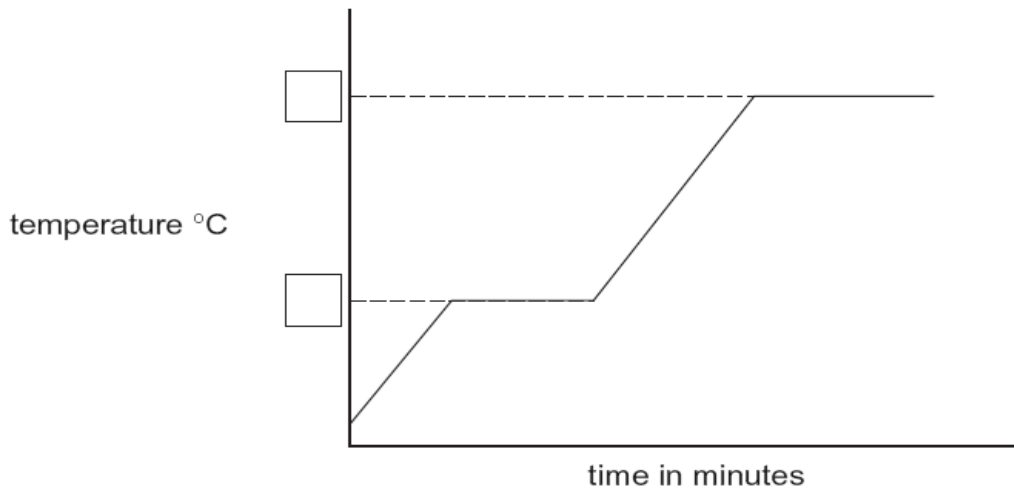
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(c) Explain how you separate the mixture of sand, salt and water.

.....
.....
.....
.....
.....

Question 8:

The graph shows the temperature of pure water as it is heated from a solid to its boiling point.



(a) Fill in boxes on the diagram with the temperature of the melting point and boiling point of water.

(b) The water was heated in a beaker. As the water boils amount of the water decreases. Why?

.....

(c) What happens to the temperature when the water is boiling?
Tick (✓) the correct box.

stays the same

increases

decreases