

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

Name: Answer key Subject: Science

Chapter 5 Revision worksheet

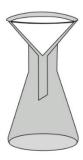
Date: / / Class: Grade 4 CP (All sections)

#### Question 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.

Salt can dissolve in water, so the salt particles will be able to pass through the holes of the filter paper since they are so small.

2. Edward heats a pot of water.

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

The temperature of the water remains at 100°C until all the water has changed into water vapour. This is the boiling point of water.















#### Question 2:

The table shows the properties of some substances.

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

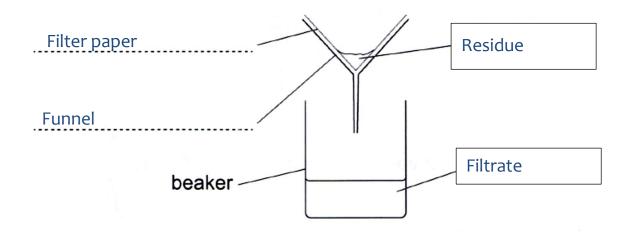
Adam has a mixture of A, B.

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.



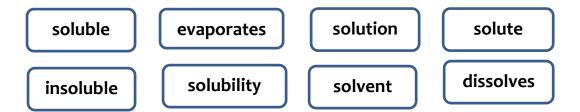
- b) Which substance is the residue? Substance A.
- c) What does the **filtrate** contain? **Water** + **Substance B.**
- d) What colour is the filtrate? Green.

### Question 3:

Insoluble.

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:

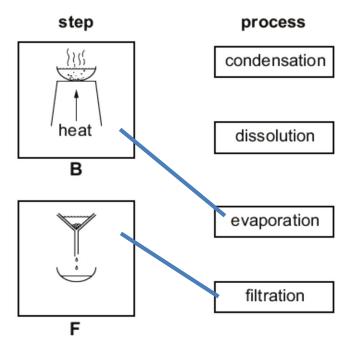


- a) The mixture of a substance dissolved in water is called a Solution.
- b) A substance is dissolved in water. This substance is called **Solute.**
- c) A substance that can dissolve in water is **Soluble.**
- d) The liquid at which a solid dissolve is called a **Solvent.**
- e) When all water evaporates 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.



Clay	Flour	Sand	Sugar	Chalk	Salt
Jelly powde	r				
	Soluble		Insoluble		
Sugar			Clay		
Salt			Flour		
Jelly po	wder		Sand		
			Chalk		
	olves in water	to form a colo	urless solutio	n.	
Sugar disso					
Sugar disso	olves in water				
Sugar dissonal) What is the Water	olves in water	solvent in this	s colourless so		
Sugar dissonal What is the Water of the solution	olves in water	solvent in this	s colourless so		
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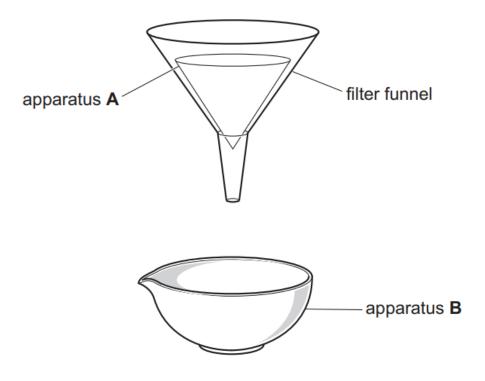
Sugar.

#### **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?

Filter paper.

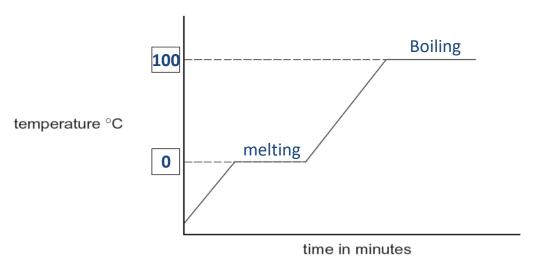
(b) What is the name of apparatus B?

Evaporating dish.

- (c) Explain how you separate the mixture of sand, salt and water.
  - 1- Add water to the mixture and stir it, the sand will not dissolve in water, while the sugar will dissolve.
  - 2- We separate the sand from the water by filtration method, the sand will be trapped on the filter paper while the filtrate pass through.
  - 3- We separate the salt from the water by evaporation, and the salt will be left behind.

## **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?

Because it evaporates.

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

stays the same increases decreases