

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

Name:

Subject: Science

Unit 5: Interactions of matter

Worksheet 3: Dissolving

Date: / /

Class: Grade 4 CP (All sections)

### Objective/s:

- Classify substances into soluble and insoluble.
- Identify the parts of a solution.

### Soluble and Insoluble Substances

#### Part 1: Solubility

Required materials:

- |                |                |                   |         |                |
|----------------|----------------|-------------------|---------|----------------|
| - Water        | - Salt         | - Sand            | - Flour | - Jelly powder |
| - Four beakers | - Stirring rod | - Spatula (spoon) |         |                |

#### Procedure:

1. Pour 100 ml of water into each beaker.
2. Add one spatula of solid into each beaker and stir.
3. Observe what happen, record your observations in the table below.

**Observation:**

Mixture	Observation	Soluble/ Insoluble
<b>Mixture 1:</b> Sand and water		
<b>Mixture 2:</b> jelly powder and water		
<b>Mixture 3:</b> Salt and water		
<b>Mixture 4:</b> Flour and water		

In the mixture of **salt and water**, what is the name given to:

- Mixture: .....
- Salt: .....
- Water: .....

## **Part 2: Separation of soluble /insoluble substances from water:**

### **Objective of the Experiment:**

Discover the way to separate soluble and insoluble substances from water.

### **- Required Materials:**

Different mixtures:	
- Sand and water	- Salt + water
- Beakers	- Filter paper and filter funnel
- Flasks	- Bunsen burner

### **Procedure:**

1. Prepare each of the above mixtures.
2. Select the appropriate method for separating each of the previous mixtures.
3. Separate the mixtures, and fill observations in the table.

**Observation:**

<b>Mixture</b>	<b>Mixture Type</b>	<b>Method of separation (Write and draw)</b>
<b>Mixture 1:</b> <b>Sand + water</b>		
<b>Mixture 2:</b> <b>Salt + water</b>		

**Conclusion:**

-In order to separate a soluble substance from water we can:

.....  
.....

- In order to separate an insoluble substance from water we can:

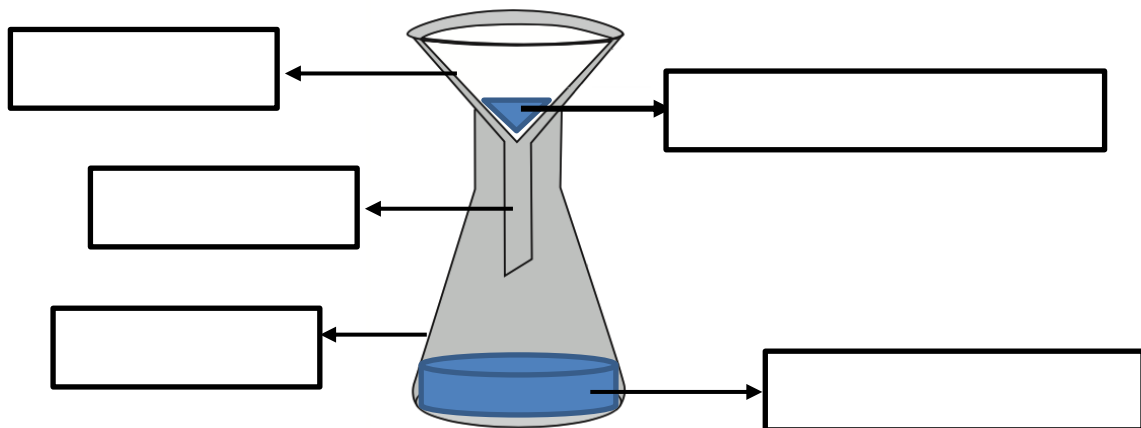
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**Question:**

Sally mixes flour in a glass of water, she wants to separate the mixture and get back the flour.

She does this using the apparatus below.

a) Label below the following diagram:



b) What name is given to the above method?

.....

c) Explain when is this method used?

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