

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

Name:

Subject: Science Unit 5: interactions of matter Worksheet 2: Investigating The melting point and boiling point of water Lab report Class: <u>Grade 4 CP (All sections)</u>

Date: / /

- Objective/s:

Investigating the melting point and boiling point of pure water.

### You will need:

A thermometer, beaker, ice cubes (Crushed ice), a spoon, bunsen burner, stop watch.

# Part 1: Investigating the melting point

- Place the thermometer in the cup of water. Wait for about two minutes.
- 2. Measure and record the water temperature.
- 3. Take the thermometer out of the water. Add the ice cubes (Crushed ice) and stir with the spoon.
- 4. Repeat the first two steps.
- Measure and record the water temperature every two minutes until all the ice has melted.





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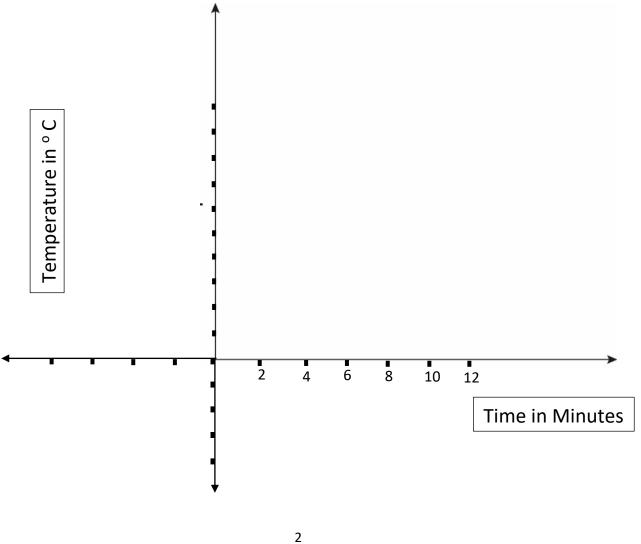
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#### Observation:

Time in minutes	Water temperature in °C
0	
2	
4	
6	
8	
10	
12	

## 6. Draw a line graph of your results.

- We draw a line graph when we measure how something changes over time.
- We plot the variable that we measure (e.g. temperature) on the *y*-axis and time on the *x*-axis.



#### - Questions:

1. What did you notice about the temperature of ice water up to the time when all the ice had melted?

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2. What was the temperature of water when all the ice had melted?

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3. What do we call this temperature at which a substance melt?

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4. How many minutes did it take for all the ice to melt?

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# Part 2: Investigating the boiling point

Next, the students used a thermometer to measure the change in temperature of water as it heats up. These are their results.

Time in minutes	Water temperature in °C
0	20
2	40
4	60
6	80
8	100
10	100
12	100

