

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

Name: \_\_\_\_ Answer key

Unit 4: States of matter

Worksheet 1: Rate of evaporation

Date: / /

Class: Grade 4 CP(All sections)

### - Objective/s:

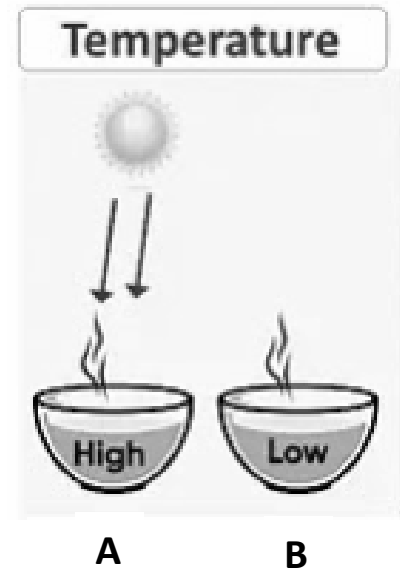
Investigate the effect of temperature on evaporation process.

### You will need:

Two identical glasses, water, a permanent marker, a measuring cup or cylinder.

### - Investigation 1:

- Measure and pour 100 ml of water into both glasses.
- Mark the level of the water in the glasses with a permanent marker.
- Put one glass in a warm place. Put the other glass in a cool place. Leave the glasses for two days, without covering them.
- Predict the results you expect to obtain. Which glass will have more water in it after two days?



### B.

- Mark the level of water in both glasses after two days.

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1. Was the water level in the two glasses the same after two days?

**No**

2. Which glass had the most water after two days? Was your prediction correct?

**Glass B**

3. How can you calculate the amount of water evaporated from both glasses.

**By subtracting the final amount from the initial amount that we put at the beginning of the investigation.**

4. Why does wet clothes dry quicker on a hot day?

**Because water evaporates more quickly as the temperature gets higher.**

5. What can you conclude about the relation between the temperature and how fast evaporation takes place.

**The higher the temperature is, the faster evaporation takes place.**

## Investigation 2:

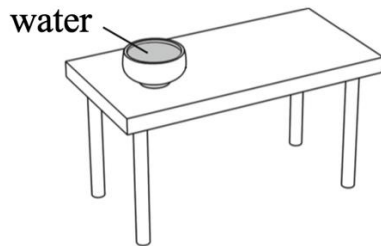
Jamila carries out an investigation on the rate of evaporation.

She prepares two set-ups as shown.

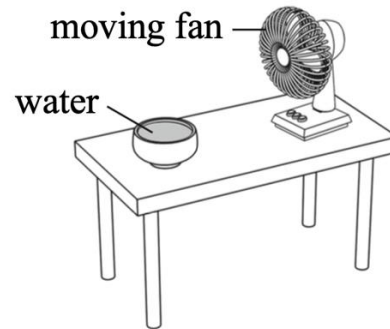
The two bowls have the same amount of water.

Jamila leaves both set-ups in a room.

She measures the amount of water left in the bowls after two hours.



set-up A



set-up B

1. What is Jamila investigating?

The rate of evaporation.

2. Which bowl will have more water after two hours?

Set-up A.

3. What factors Jamila must keep the same in order to have a fair test?

Same size of bowl, Same amount of water, Same temperature of water and the surrounding.

- We can conclude that the factors that affect rate (speed) of evaporation are:

- 1) The temperature
- 2) Wind speed
- 3) Surface area.