

Revision Sheet | The Primary Stage of Grades (4-5)

2023-2024

Name:

Subject: Science

Date: / /

Class: Grade 4 (C, D, E, F, G)

Question 1:

a) Define the rate of evaporation.

.....

b) State the factors that affect the evaporation rate:

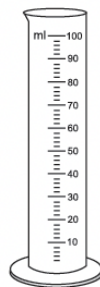
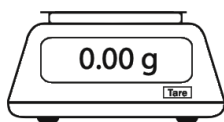
1.

2.

3.

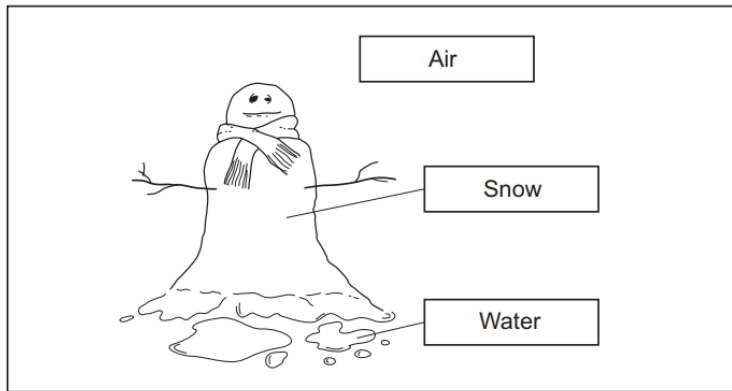
Question 2:

Anastasia wants to measure the temperature of water in the cooking pot before putting it over the heat. What does she use to accurately measure the temperature? Circle the correct answer and state its name.



Question 3:

Sarah has built a snowman on a cold but sunny day.



a) Identify the states of matter of the following?

Air:.....

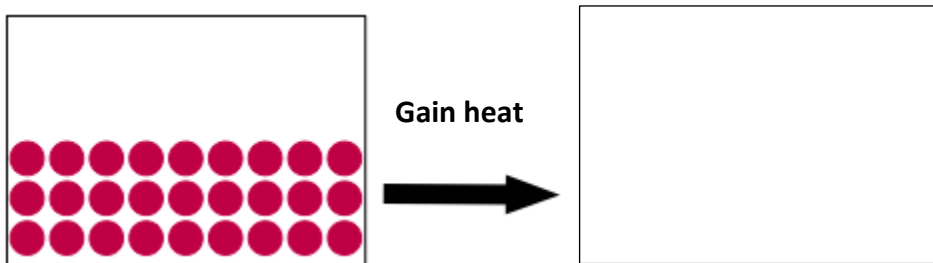
Snow:.....

Water :.....

b) State the process that is happening to the snowman in the sun?
Describe what happens to the particles during this process.

.....
.....

c) Describe in drawing the change that happens to the particles of ice.

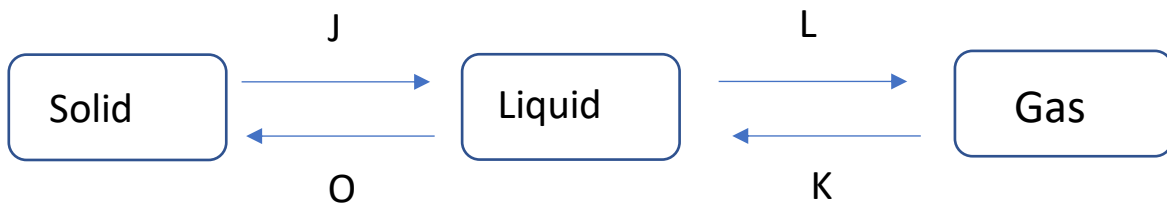


d) After several hours water started to evaporate.

What name is given to **water** in the gaseous state?

Question 4:

In the diagram below, arrows **J**, **K**, **L** and **O** represent processes involving the changes in states of matter.



a) State the name of the process that each arrow represents:

J:.....

K:.....

L:.....

O:.....

b) In process **K**, how can a gas can turn back into a liquid?

Describe what happens to the particles during this change.

.....

.....

Question 5:

Boiling, freezing and melting are three processes that water can go through. Draw a line to match each process to what happens to the water during the process.

name of process

what happens during the process

boiling

ice gains heat and changes into a liquid

freezing

water gains heat and changes into a gas

melting

water loses heat and changes into a solid

Question 6:

Anastasia is investigating the melting and boiling points of pure water. She puts some ice in the cooking pot over a flame and heats it. The ice starts to melt.

a) What will happen to the **liquid water as it gains heat?**

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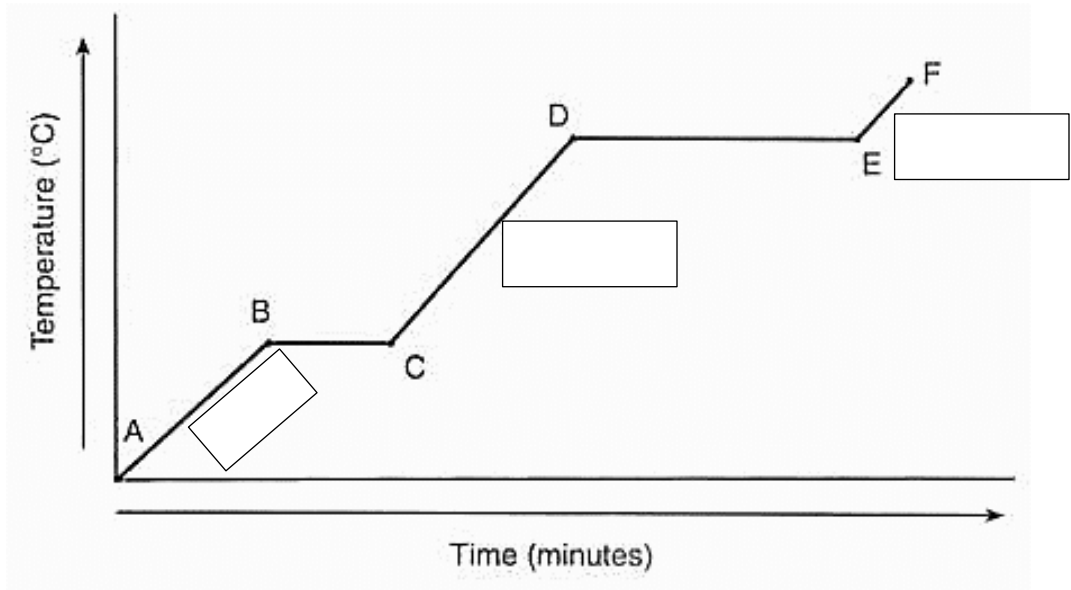
b) After a while, **water started to boil**. How can Anastasia know that the water is boiling?

.....

c) State the name given to **the temperature at which a liquid starts to boil?**

.....

d) Anastasia represented her results in the following line graph:



Study the graph and answer the following:

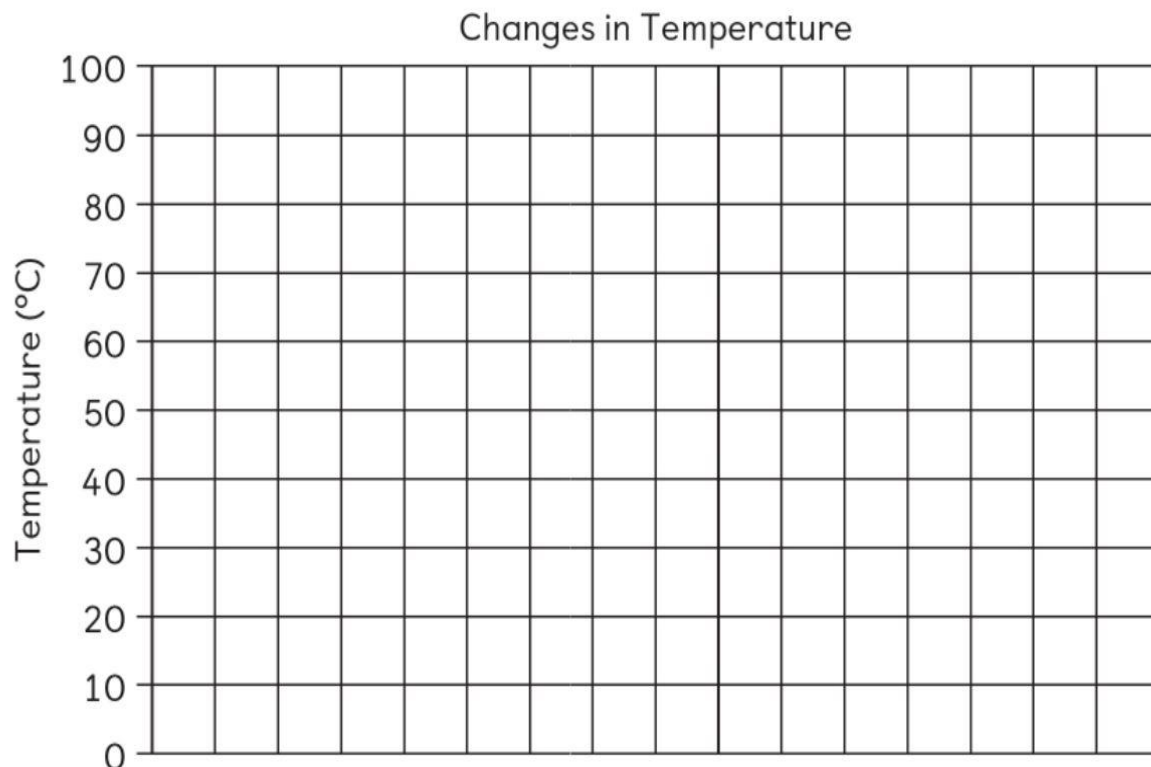
1. Which point represents the melting point of ice?
2. Which point represents the boiling point of water?
3. On the graph, decide the area where water is in the solid state, liquid state and gaseous state.
4. What happens to the temperature in the area **B-C**?
.....
5. What happens to the temperature in the area **D-E**?
.....
6. At which temperature does pure water boil.
7. State the melting point of pure water.

Question 7:

Anastasia measures the temperature every two minutes. She recorded her results in the table below:

Time (Minutes)	Temperature (°C)
0	20
2	40
4	50
6	70
8	90
10	100
12	100
14	100

Draw a line graph that shows her results



Question 8:

a. Classify the following substances into soluble and insoluble in water.

Sand Jelly Powder Clay Iron
Sugar Salt Flour

Soluble	Insoluble

b. Sugar dissolves in water forming a colorless solution.

In this mixture what is the name given to:

- The mixture of water and sugar:
- Sugar:
- Water:

c. Maya has sea water solution. She wants to obtain the sea salts dissolved in this water. Describe the method used to obtain these salts.

.....

.....

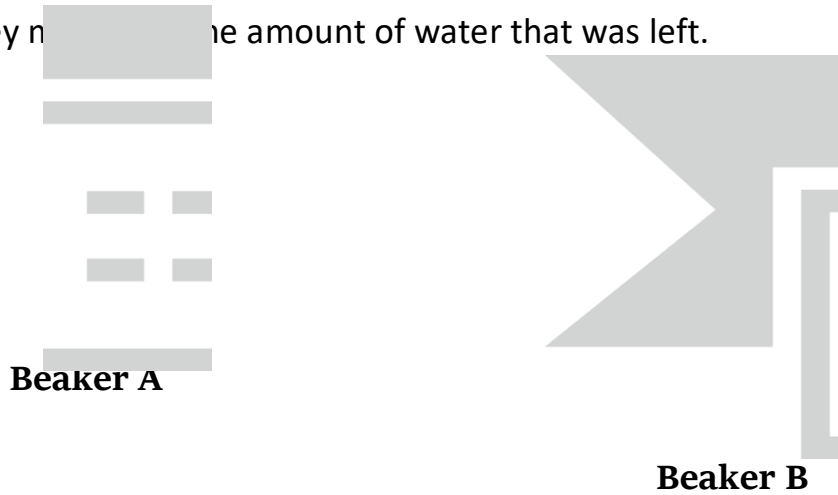
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Question 9:

Maya and Rami are planning an investigation to determine if the surface area of the container affects the rate of evaporation.

They poured 100 ml of water in each of the beakers shown below and left it **for 3 days** at the room temperature.

After **3 days**, they measured the amount of water that was left.



1. Identify the following in this investigation:

Dependent variable:

Independent variable:

Control variable:

2. Predict, from which beaker will water evaporate faster?

.....

3. Complete the following **conclusion:**

The the surface area of a container, the the rate of evaporation is.

Question 10:

Tick (✓) the correct box beside each statement:

Statement	Solid	Liquid	Gas
Has a fixed shape and volume			
Particles can be compressed			
Particles are tightly packed			
Takes the shape of the container			
Particles spread randomly			
Particles vibrate in their place			
Particles slide against each other			
Has no fixed shape or volume			

