Catholic High School (Primary) Primary 5 Science 2024 Weighted Assessment 2

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Name:		()		MARKS		30
Class: Pri	. 5 -						
Date: 8 M	ay 2024			Parent's Sig	nature:		
For each	A (10 × 2 marks) 1 question from 1 Make your choice	to 10, four optic (1, 2, 3 or 4).	ons an Write	e given. One its correct r	number in th	the cor e brack (20 mai	cets
1 Whic	h statement is cor	rect?					
(1)	All liquids boil at	100 °C.					
(2)	Evaporation takes	s place at any te	mpera	ture.			
(3)	Water vapour can	be seen with th	e nake	ed eye.			
(4)	Evaporation takes	place at any pa	ect of th	ne liquid.		()
2 The ta	ble shows the me	lting and boiling	points	of substanc	ce X.		
	Substance	Melting point	(°C)	Boiling p	oint (°C)		

At which state will substance X be at 10 °C and 100 °C respectively?

25

125

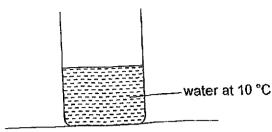
	State of substance X at	
Ī	10°C	100°C
(1)	solid	liquid
(2)	liquid	liquid
(3)	liquid	gas
(4)	solid	gas

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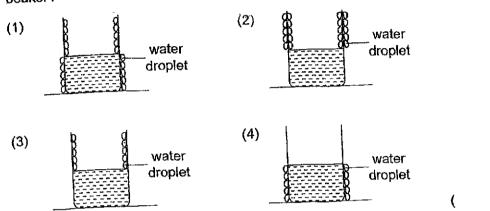
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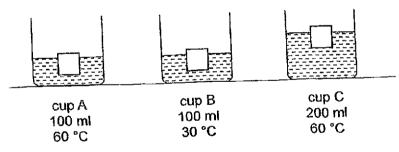
3 A beaker of water at 10 °C was placed in a room at 30 °C.



Which diagram correctly shows where the water droplets would form on the beaker?



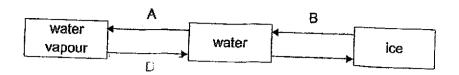
4 Identical ice cubes were placed in identical cups containing water of different volumes and temperatures.



Which is the correct order when the ice cubes melt completely from the fastest to the slowest?

Fastest		Slowest
В	С	Α
В	Α	С
С	В	Α
C	Α	В

5 A, B, C and D are processes involved in the changes of the states of water.

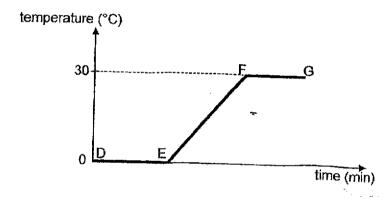


Which processes involve heat gain?

- (1) A and B only
- (2) A and D only
- (3) B and C only
- (4) C and D only

6 A beaker of ice cubes was left in a room.

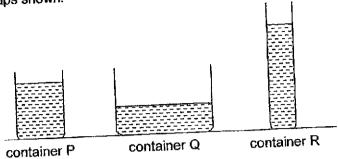
The graph shows the temperature of the ice cubes over a period of time.



What processes do the lines DE and FG represent?

DE	FG
melting	boiling
freezing	evaporation
melting	evaporation
freezing	boiling

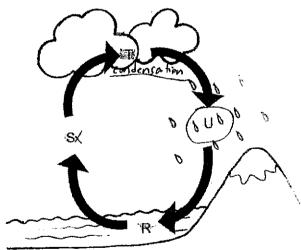
Jiayang wanted to investigate one of the factors affecting the rate of evaporation, using the set-ups shown.



Which variables should Jiayang keep constant?

- A size of beaker
- B volume of water at the start
- C volume of water left in the end
- (1) A only
- (2) B only
- (3) B and C only
- (4) A, B and C

8 The diagram represents the water cycle. R, S, T and U represent different parts of the cycle.



At which parts (R, S, T or U) are water present in the liquid state?

- (1) R and U only
- (2) R, T, and U only
- (3) S, T, and U only
- (4) R, S, T, and U

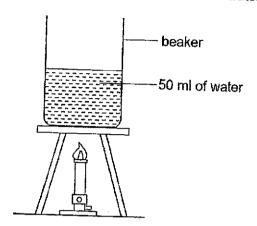
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9 Jayvier used the set-up shown. He used similar beakers made of different materials, A, B, C and D.

He heated each beaker and measured the time taken for the water to boil.



He recorded the results as shown.

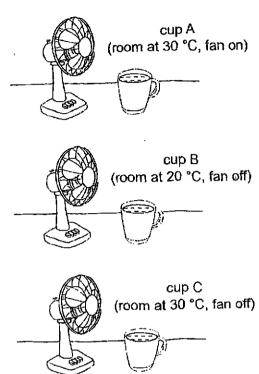
Material	Time taken for the water to boil (min)
Α	5
В	2
С	7
D	6

Which material should Jayvier use if he wanted to keep the water in the beaker hot for the longest period of time?

- (1) A
- (2) B
- (3) C
- (4) D

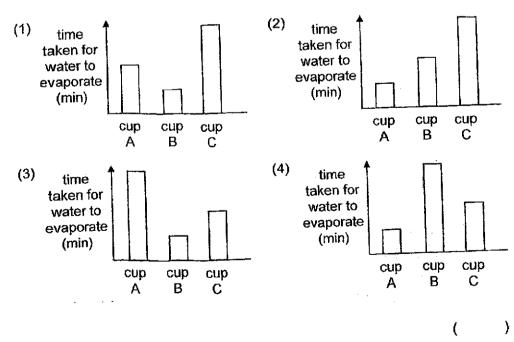
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Mrs Wong filled three identical cups, A, B and C, with 300 ml of water each. She placed the cups in three rooms with identical fans.



Mrs Wong measured the time taken for all the water to evaporate and recorded the information in a graph.

Which graph is correct?



	Booklet	B (10	marks
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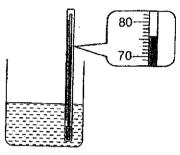
For questions 11 to 13, write your answers in this booklet.

The number of marks available is shown in brackets [] at the end of each question or part question. (10 marks)

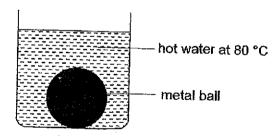
11	(a)	State what temperature is.	[1]

(b) State the temperature shown on the thermometer.

[1]



A metal ball with a temperature of 20 °C was placed in a container of hot water as shown.

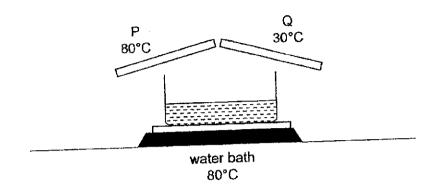


(0)	minutes. Explain why.	[1]

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SCORE
3

CHS/Sc/P5/WA2/2024

A water bath was kept at a constant temperature of 80 °C. Two glass sheets of different temperatures, P and Q, were placed above the water bath as shown.



(a) State where the water droplets were formed within a short period of time. Put a tick (✓) against the correct statement.

Statement	Р	Q
Water droplets were formed on the upper side of the glass sheet.		
Water droplets were formed on the underside of the glass sheet.		
No water droplets were formed on the glass sheet.		

(G	o on to th	e next pa	age)
8	SCORE		1

Continue from question 12

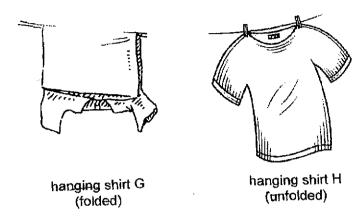
Michael took a hot shower. When he came out of the shower, he observed that his bathroom mirror was foggy.



(b)	Explain why Michael's bathroom mirror became foggy.	[2]
		-
Mich obse	ael then replaced his bathroom mirror with a heated mirror. He erved that the heated mirror was not foggy after a hot shower.	-
	heated bathroom mirror	
c) i	Explain why the heated mirror was not foggy after a hot shower.	1]
	(Go on to the next page SCORE 3	e)

CHS/Sc/P5/WA2/2024

13 Shahir hung two similar shirts to dry in the same location. He hung shirt G folded and shirt H unfolded. Both were equally wet at the start.



(a)	Based on the diagrams shown above, which shirt would dry first? Explain why.	[2]
		-
(b)	State one other factor affecting the rate of evaporation.	[1]

End of Paper

SCHOOL :

CATGOLIC HIGH SCHOOL

LEVEL

PRIMARY 5

SUBJECT : TERM :

SCIENCE 2024 WA2

Q1)	2	
Q2)	1	
Q3)	4	
Q4)	4	
Q5)	1	
Q6)	3	
Q7)	2	
Q8)	2	
Q9)	3	
Q10)	4	

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Class: 5 Goodness

Primary 5 Weighted Assessment 2 Notes

Qn	Answer			Marks	Remarks
11	Concept: Definition of temperature, how heat is transfe expansion/contraction based on heat gain/heat loss.	erred			
8	Temperature is a measurement of the degree of hotne object.	ss of	an	1	Please memorise the definitions from the textbook for the various topics. Good to prepare for the exams.
р	76 °C			1	Remember to write in the units. Will be penalised without units.
С	The volume of the metal ball increased. The ball gained heat from the hot water and each of the hot water and eac	expan	ded.	1	Important: Volume is the amount of space in an object. Volume of metal does not equate to metal ball increased. Be precise. Heat question – gain heat from (source) Lose heat to (source) No mention of heat flow = 0m
12	Concept: Changes of state of water, water cycle			1	Remember the conditions for
a	Water droplets were formed on the upper side of the glass sheet. Water droplets were formed on the underside of the glass sheet. No water droplets were formed on the glass sheet.	√ P	. √ . Ø	Half mark each	condensation.

b	1. (source)The warmer wisterness		
	(source)The warmer water vapour from the hot shower, (contact) touched the cooler surface of the mirror, lost heat and	1	Please remember the steps and memorise if you cannot remember.
	4. condensed to form water droplets		Important type of question.
C	Evidence: The heated mirror was hotter than / same temperature as the water vapour from the shower, Reasoning: So the water vapour could not condense on the mirror.	1	State the process at the end of your answer. = condensation Does not occur as the question stem mentioned 'the heated mirror was no foggy'.
13	Concept: Factors affecting evaporation	ļ	
а	C: Shirt H	1	
	E: Shirt H had a larger exposed surface area to the surroundings	2	Factors affecting evaporation: W - wind
	R: so the rate of evaporation was faster.		E – exposed surface area T – temperature
			Always end of with the process = evaporation
þ	Temperature / wind	<u> </u>	Note: OTLED
			Note: OTHER factors, thus, do not