## Ai Tong School P4 Science 2024 Term 3 Review

rate:	ame: _	( )	Class: 4
ection A (14 marks)  or each question from 1 to 7, four options are given. One of them is the correct answake your choice (1, 2, 3 or 4) and shade your answer in the OAS provided.  Study the classification table below.  Light source Non-light source  fire mirror lighted torch highlighter lightning firefly moon battery  Which of the following has/have been classified wrongly?  (1) firefly only (2) firefly and moon only (3) lightning and battery only (4) firefly and highlighter only	ate:		
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<ul> <li>(1) firefly only</li> <li>(2) firefly and moon only</li> <li>(3) lightning and battery only</li> <li>(4) firefly and highlighter only</li> </ul>		lighted forch lightning	mirror highlighter firefly
(2) firefly and moon only (3) lightning and battery only (4) firefly and highlighter only	Whi	ch of the following has/have been c	assified wrongly?
(3) lightning and battery only (4) firefly and highlighter only	(1)	firefly only	
(4) firefly and highlighter only	(2)	firefly and moon only	
, , , , , , , , , , , , , , , , , , ,	(3)	lightning and battery only	
	(4)	firefly and highlighter only	

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2 The diagram shows a glass.



The glass can be seen because it \_\_\_\_\_

- (1) is opaque
- /(2) reflects light
- ((3) absorbs light
- (4) is a source of light

Which of the following is not a source of heat?





√(2) Fire



√ (3) A cup of hot tea



√(4) The Sun

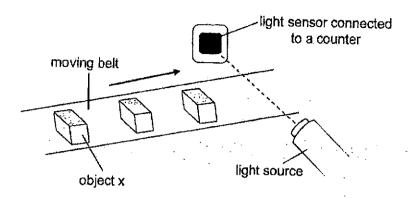


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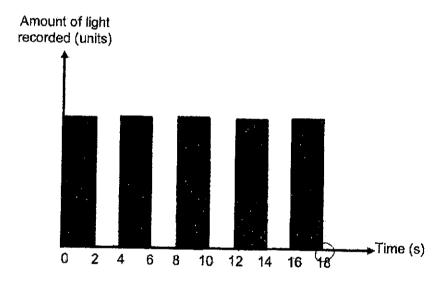
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4 A light source and a light sensor are set up to count the number of object X on a moving belt.



When object X moves between the light source and the sensor, it blocks the light from reaching the sensor. The amount of light recorded over a period of time is shown in the graph below.



Based on the graph above, how many object X passed the sensor within a period of 18 seconds?

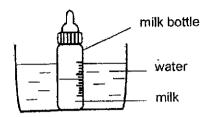
- (1) 4
- (2) 5
- (3) 9
- (4) 18

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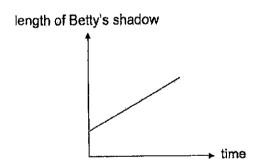
5 A bottle of milk at 30°C was placed in a basin of water as shown in the diagram below.



After two minutes, the temperature of the milk became 50°C.

What was the likely temperature of the water in the basin at first?

- (1) 10°C
- (2) 30°C
- (3) 50°C
- (4) 80°C
- In the experiment, Mary measured the length of Betty's shadow from a lighted lamp post over a period of time. Her results are shown below.



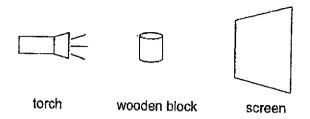
Which of the following describes the position of Betty during the experiment?

- (1) Betty stood still near the lamp post.
- (2) Betty moved towards the lamp post.
- (3) Betty moved away from the lamp post.
- (4) Betty moved towards then moved away from the lamp post.

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7 The set-up below shows a torch shining on a wooden block.

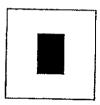


Which one of the following would likely be seen on the screen?

(1)



(2)



(3)



(4)



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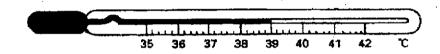
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## Section B (11 marks)

For questions 8 to 11, write your answers in the spaces provided. The number of marks available is shown in bracket [] at the end of each question or part question.

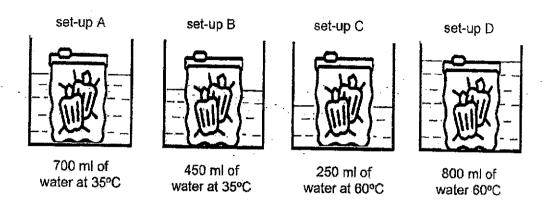
John was running a fever so he used the instrument below to measure his body temperature.



(a)	State the reading shown in the instrument.	[1]
(b)	Name the instrument used to measure his body temperature.	[1]
(c)	John placed a cold and wet towel on his forehead for fifteen minutes. What would happen to his body temperature? Explain your answer.	[2]
		<u> </u>

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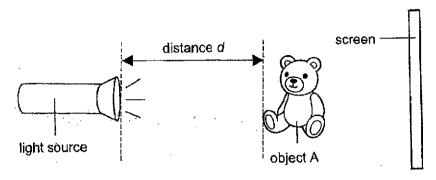
Mike conducted an experiment as shown below to find out how he could defrost a packet of frozen vegetables in the shortest time. He placed four similar packets of frozen vegetables into four similar containers containing different volumes of water at different temperatures.



Which set-up, A, B, C or D, should Mike use if he wants the frozen vegetables to defrost in the shortest time? Explain your answer. [2]

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Mandy wanted to find out how the distance d would affect the height of the shadow of object A on the screen. When she switched on the torch, a dark shadow of object A was formed on the screen. The position of the screen is fixed throughout the experiment.



She recorded the results in the table below.

Distance d (cm)	Height of shadow (cm)	
5	20	
10	16	
15	10	

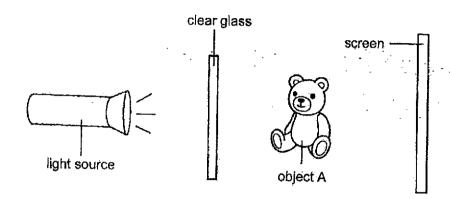
(a)	What is the relationship between the distance d and the height of the sha		
(b)	If Mandy sets distance <i>d</i> as 8cm, predict the height of the shadow formed on the screen.		

Question 10 continues on the next page ...



Question 10 continues on this page ...

Without making any changes to the set-up, Mandy placed a large piece of clear glass between the light source and object A.

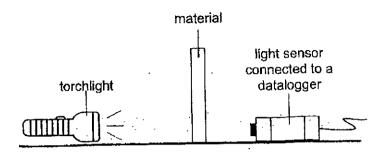


(c)	Mandy observed that a dark shadow was also formed on the screen.		
	Explain her observation.	[1]	

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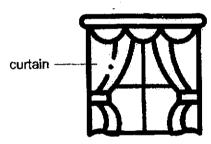
Different materials are placed one at a time between a torch and a light sensor connected to a datalogger. The amount of light passing through each material was recorded.



The table below shows the readings recorded.

Material	Amount of light recorded (unit)	
Α	840	
В	100	
С	3175	
D	2460	

Dan wanted to install curtains on his windows to block out as much light as possible.



based on the experiment, which material, A, B, C or D, is most suitable to be for making the curtains? Explain your answer.	[2] [2]
Α	······································

**End of Paper** 

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## 1)2 2)2 3)1 4)1 5)4 6)3 7)2

## 2024 Term 3 Science WA Correction Template

e:		_( )	Date:	
S:				
• .				
No	Suggested Answers			
	39 oC			
	Thermometer			
	1			
	His body temperature will	se 	······································	His body
	loses heat to the wet	towel		•
	Choice: Set-up D			
	Data: Container in set-upD	_contains	the	ost matter
	at a higher	_temperat	ure.	
	Explain: So most	eat will tra	ansfer fro	<sub>n</sub> water
•	to frozen vegetables to defrost it.			
	_			
	distance d increases,			
	As			, the

10b	17 cm – 19 cm	
10c .	transparent The clear glass is	/ allowsmost
•	light to pass through it.	
11	Choice: Material	·
	Data; Amount of light recorded is the	*
	Explain: B can block outmost	amount of light/ B is the
	least transparent.	

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