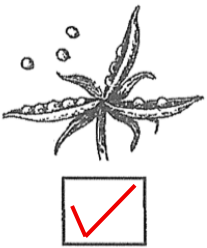
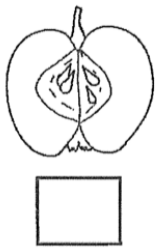


Answer

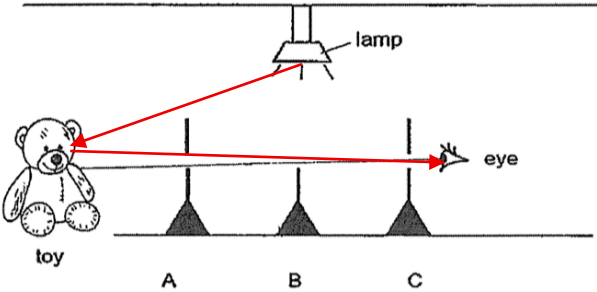


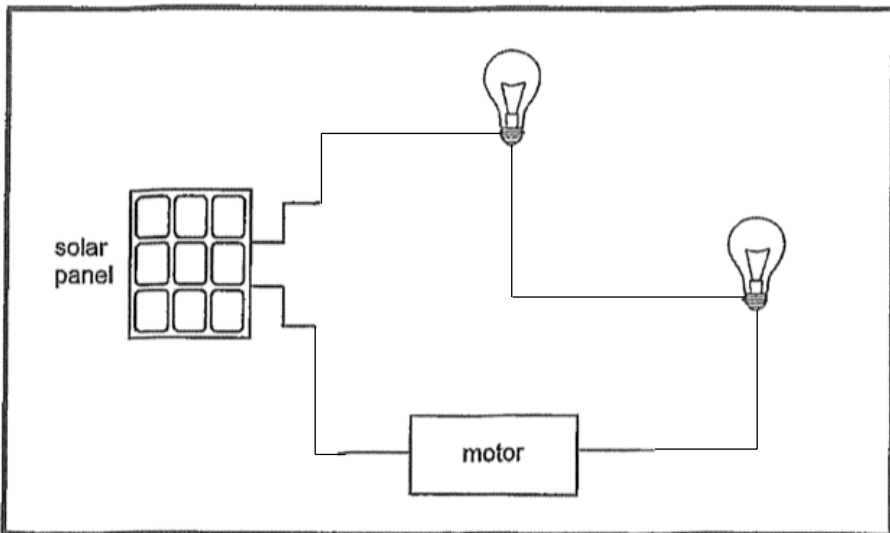
**2024 Primary 5 Science
Henry Park Primary School
End - of - Year Exam**

Booklet B

29)	a) 2 marks				
	<table border="1"> <tr> <th>Question W</th><th>Z</th></tr> <tr> <td>Does it reproduce by spores? (1m)</td><td>No (1m)</td></tr> </table>	Question W	Z	Does it reproduce by spores? (1m)	No (1m)
Question W	Z				
Does it reproduce by spores? (1m)	No (1m)				
30)	a) number of leaves of each plant [1m] b) Add <u>a layer of oil on top</u> [1m] of each set-up. With oil, <u>the water in the measuring cylinder is not able to gain heat and evaporate.</u> [1m]				
31)	a) 1 mark   b) Based on the bar graph, there is <u>the greatest number of young plants X found nearest to the parent plant.</u> [1m] When the <u>fruit splits open, the force is not great enough,</u> [1m] hence the seeds will be nearest to parent plant which will <u>germinate and grow.</u> c) The <u>young plants</u> will not experience overcrowding and <u>will not compete with the adult plants for water, space, nutrients and sunlight so they can grow more healthily.</u> [1m]				
32)	OUT OF SYLLABUS for 2025 P5 students				

	a) i) cell wall / chloroplast[1m] ii) flagellum [1m] b) cell membrane. It controls the substances moving in and out of the cell. [1m]								
33)	a) To <u>ensure the continuity of its own kind</u> [1m] so that it will not be extinct. b) X. During germination, the <u>seed leaf is needed to provide food for the seedling</u>, [1m] hence mass will decrease.								
34)	a) Solid [0.5m] and gas [0.5m] b) 1 mark <table border="1"> <thead> <tr> <th>Volume of Container</th><th>Tick (✓) the correct volume</th></tr> </thead> <tbody> <tr> <td>Less than 150 cm³</td><td></td></tr> <tr> <td>Is equals to 150 cm³</td><td></td></tr> <tr> <td>More than 150 cm³</td><td style="text-align: center;">✓</td></tr> </tbody> </table> c) There are <u>air spaces between the solid marbles. Since air occupies some space</u>, [1m] the total volume of container must be greater. d) When flattened, air is being pushed out from the milk cartons. <u>The solid milk cartons occupied less space</u> [1m] in the recycling bin.	Volume of Container	Tick (✓) the correct volume	Less than 150 cm ³		Is equals to 150 cm ³		More than 150 cm ³	✓
Volume of Container	Tick (✓) the correct volume								
Less than 150 cm ³									
Is equals to 150 cm ³									
More than 150 cm ³	✓								
35)	a) <u>Water</u> from sea water <u>gained heat from the sun and evaporated into water vapour</u>. [1m] Salt, <u>a solid</u>, cannot evaporate and <u>will remain behind</u> [1m] in the shallow pools. b) To <u>increase the exposed surface area of sea water to increase rate of evaporation of water</u>. [1m] c) To ensure that <u>the salt harvested / collected will not be polluted by dirty substance</u> [1m] which can be dangerous to human health. d) Add big fans so that <u>wind can increase the rate of evaporation</u>. [1m]								

36)	a) Independent variable : Different-coloured surface of containers [1m] Dependent variable : Temperature of water at the end of experiment [1m] b) As time increased, the temperature of water of dark surface can increased at a faster rate. [1m] c) The <u>black back of bird P can gain heat faster from the sun</u>, [1m] <u>allowing bird P to be kept warm so survive better</u>. [1m]
37)	a) 1 mark  b) Sheet B is transparent / <u>allows most light to pass through</u>. [0.5m] <u>Light from the lamp was reflected by the toy into Jamal's eyes</u>. [0.5m] c) Black [1m]
38)	a) Iron / steel [1m] b) Latha will need to <u>move the paper clip away from each magnet. She will then record the maximum distance that each magnet can still attract the paper clip</u>. [1m] <u>Magnet G is able to attract the paper clip at a greater distance</u> [1m] compared to H. c) Ensure that the mass of the paper clip was the same [1m]
39)	a) When switch S was closed, electric current flowed through the closed circuit to light up the bulb. [1m] b) <u>Electric current flowed through the iron bar, causing it to become electromagnet which attracted the iron ball</u> upwards. [1m]

	c) The iron ball would <u>fall downwards</u> . [0.5m] Due to the gap in the iron contacts, the <u>open circuit did not allow electric current to flow through</u> [0.5m] <u>and the electromagnet was demagnetised</u> . [1m]						
40)	a) 1 mark for correct arrangement of wires to tip and casing of one bulb 1 mark for series arrangement of bulbs 1 mark for closed circuit for motor and bulbs to work  b) 2 marks <table border="1"><tr><td>(i)</td><td>bulbs light up only when he wants them to</td><td>add a switch to control the bulbs</td></tr><tr><td>(ii)</td><td>if one bulb blows, the other still remains lit</td><td>arrange the two bulbs in parallel</td></tr></table>	(i)	bulbs light up only when he wants them to	add a switch to control the bulbs	(ii)	if one bulb blows, the other still remains lit	arrange the two bulbs in parallel
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