PEI CHUN PUBLIC SCHOOL

PRIMARY 3

TERM 3 WEIGHTED ASSESSMENT 2021

SCIENCE

Time: 30 min

Name: _____ ( )

Class: Primary 3 /( )_____

Date: _____

Science Teacher: _____

Parent's Signature: _____

SECTION A	/10
SECTION B	/10
TOTAL	/20

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

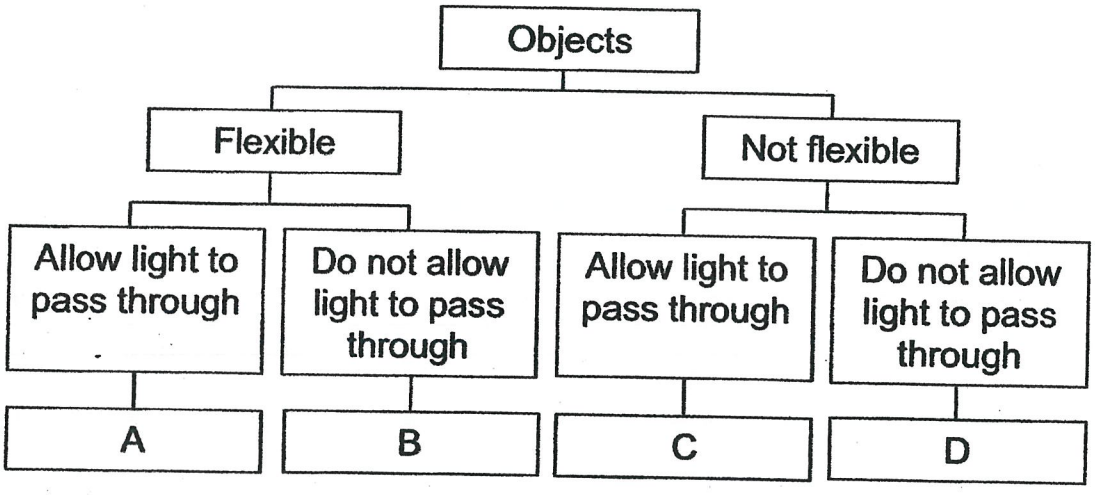
This booklet consists of 8 printed pages including the cover page.

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Section A (5 × 2 marks)

For questions 1 to 5, choose the most suitable answer and write its number (1, 2, 3 or 4) in the brackets provided.

1 Study the classification chart below.



Which of the objects is a wooden ruler?

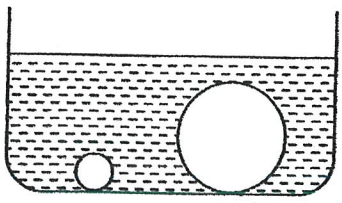
(1) A (2) B

(3) C (4) D ( )

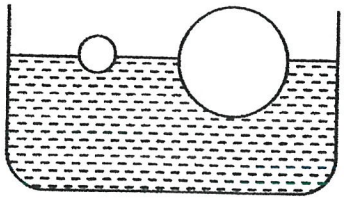
2 Weiming had two solid steel balls of different sizes. He placed the balls in a tank of water.

Which of the following shows the possible positions of the balls in the water?

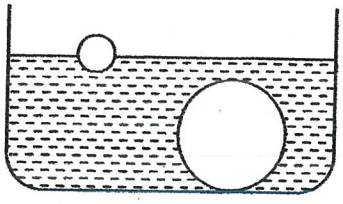
(1)



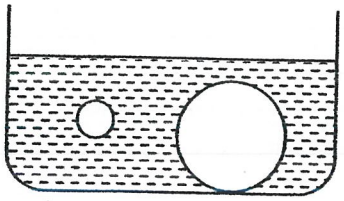
(2)



(3)



(4)

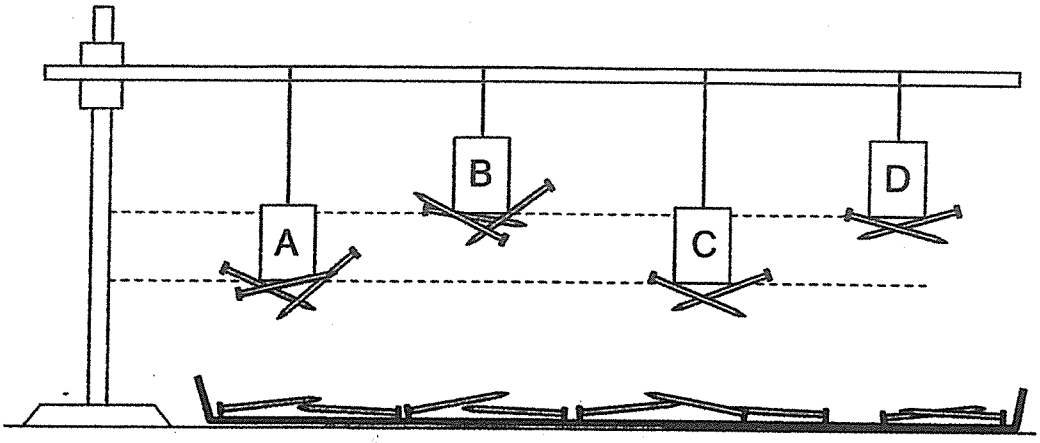


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3 Magnets A, B, C and D are hanging from strings of two different lengths. A tray of iron nails is placed below the magnets.

The diagram below shows the number of iron nails attracted by each magnet.



Which of the following statements is definitely true?

(1) Magnet D is the weakest.
(2) Magnet A is the strongest.
(3) Magnet D is weaker than magnet C.
(4) Magnet B is stronger than magnet A. ( )

4 Caili lowered a ring magnet onto a tray of steel pins as shown in diagram 1. Diagram 2 shows the bottom view of the ring magnet.

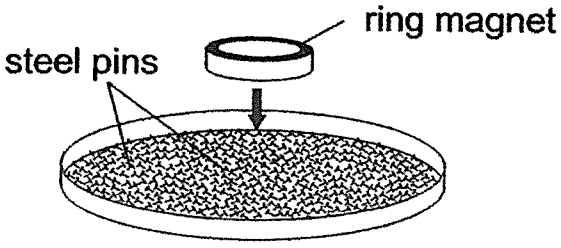


Diagram 1

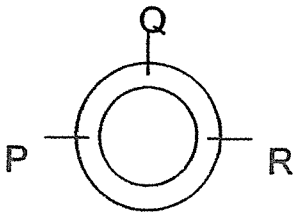


Diagram 2

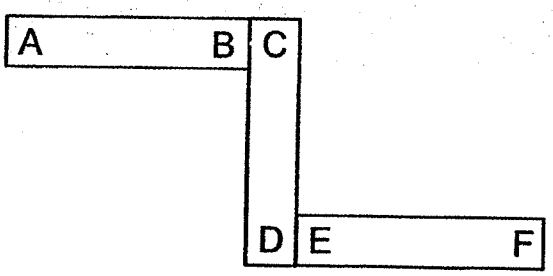
Which of the following most likely shows the number of pins attracted to the bottom of the magnet at positions, P, Q and R?

	P	Q	R
(1)	1	6	1
(2)	6	1	6
(3)	2	4	6
(4)	6	6	6

( )

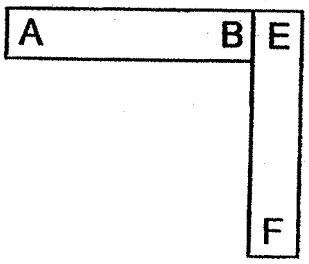
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5 Three bar magnets with their ends marked A to F can be arranged as shown below.

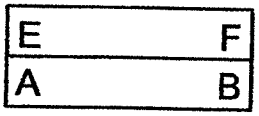


Which of the following arrangements is **not** possible?

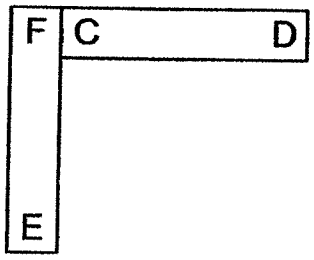
(1)



(2)



(3)



(4)



( )

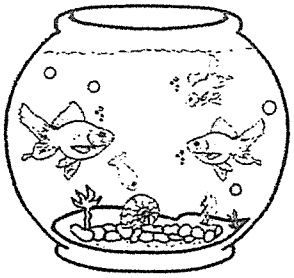
End of Section A

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Section B (10 marks)

For questions 6 to 9, write your answers in the spaces provided.

6 Mary wanted to get a bowl to keep her pet fish. She saw a fish bowl that is made of glass as shown below.



(a) Give a reason why glass is suitable for making the fish bowl. [1]

_____

_____

(b) Mary's friend suggested that she should use a bowl that is made of plastic.

Other than being lighter, state another advantage of using a plastic bowl instead of a glass bowl. [1]

_____

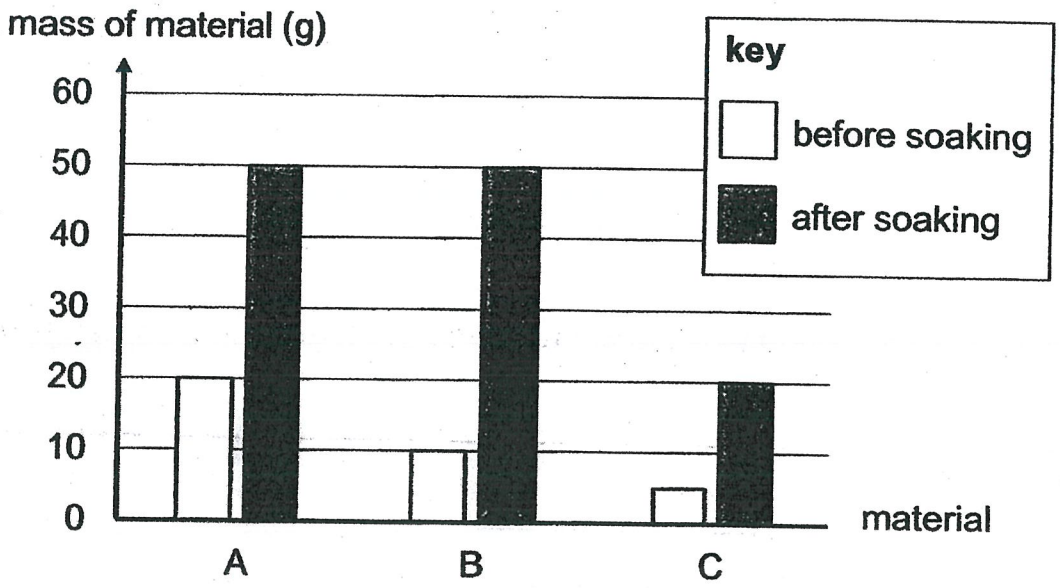
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7 Betty had three strips of different materials, A, B and C, which are of the same size.

The graph below shows how heavy each strip of material was before and after it was soaked in water for one minute.



(a) Based on the graph, how much water was absorbed by the strip made of material A? [1]

_____ g

(b) Betty uses a mop as shown to clean up spillages on the floor.



Which material, A, B or C, is most suitable for making part X? [1]

_____

(c) Give a reason for your answer in (b). [1]

_____

_____

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8 Ellie magnetised three identical iron nails, A, B and C, by the 'stroke' method. She stroked each nail with the same bar magnet for different number of times.

She dipped each magnetised nail into a tray of steel pins and counted the number of pins it attracted. Her results are shown in the table below.

Nail	Number of pins attracted
A	18
B	2
C	7

(a) Based on the results, which nail, A, B, or C, was stroked the most number of times with the bar magnet?
Give a reason for your answer. [1]

_____

_____

(b) Ellie tried to magnetise an aluminium rod using the same method. She stroked the aluminium rod 30 times with the bar magnet.

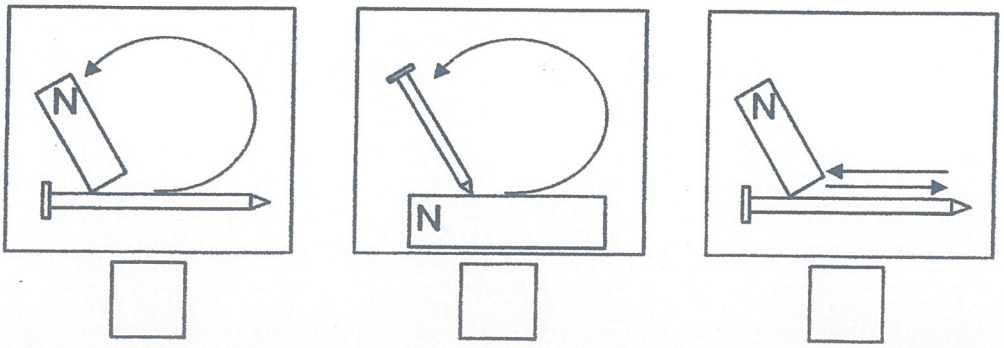
When she dipped the aluminium rod into the tray of steel pins, she observed that no pins were attracted to it.

Explain her observation. [1]

_____

_____

(c) Which diagram shows the correct way of the 'stroke' method?
Put a tick (✓) in the correct box. [1]



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9 Raju hung bar magnet Q as shown in diagram 1. When he placed object P under it, he observed that magnet Q moved away as shown in diagram 2.

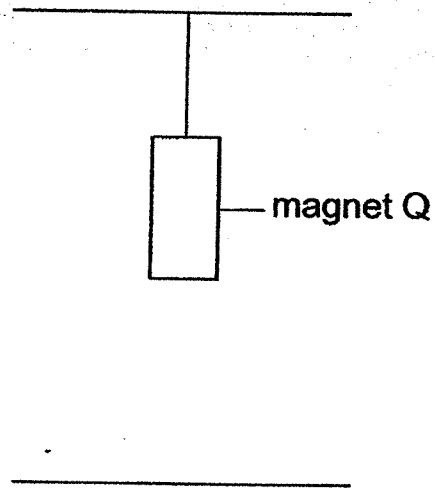


Diagram 1

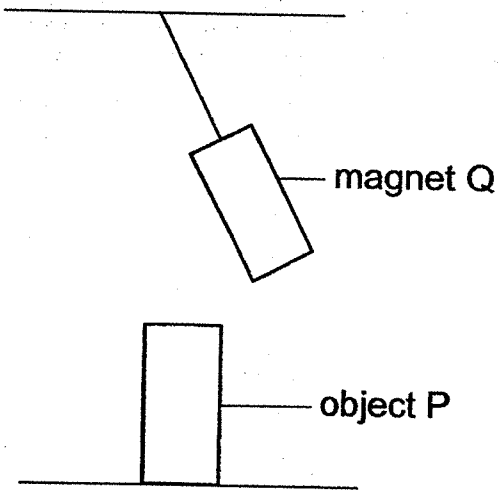


Diagram 2

(a) What is object P? [1]

(b) Explain why magnet Q moved away when object P was placed below it. [1]

End of Section B

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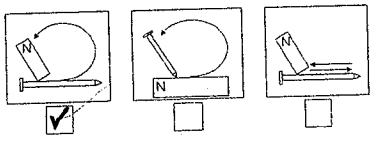
ANSWER KEY

YEAR : 2021
LEVEL : Primary 3
SCHOOL : Pei Chun Public School
SUBJECT : SCIENCE
TERM : Term 3 Weighted Assessment

Section A

Q1	4	Q2	1	Q3	4	Q4	4	Q5	2

Section B

Q6	(a) Glass is suitable for making a fish bowl, because it is transparent and allows light to pass through. (b) Glass bowl breaks easily when dropped but the plastic bowl does not break easily.
Q7	(a) 30g (b) Material B (c) Material B can absorb the most amount of water compared to Material A and C.
Q8	(a) Nail A was stroked the most amount of times as it attracted more pins than nail B and C. (b) The aluminium rod did not attract anything, because aluminim is not a magnetic metal. (c) 
Q9	(a) Object P is a magnet (b) The like poles of Magnet P and Q were facing each other so they repelled.

END

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