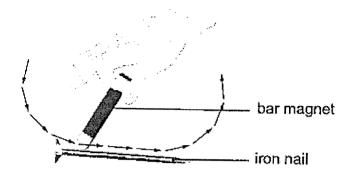


## Henry Park Primary School Primary 4 Science 2023 Weighted Assessment 2 Section A



Name	ə:(     )   .	Duration: 35 minut	es
Class	s: Primary 4	Parent's Signature	:
This:	ion A [8 marks] section consists of two performance tasks. For	ollow the instructions ca	refully to complete the
Read	all the instructions carefully before starting o	on this section.	
1.	Cherie wanted to investigate if the numbe strength of a temporary magnet. She was gi  Material list:  1 iron nail		
	<ul> <li>A bar magnet</li> <li>10 staples</li> </ul>		
<ul> <li>(a) Tick (√) the variables that must be kept the same in order for this exto be a fair test.</li> </ul>			periment [1]
	Variables	Kept the same	
	Direction in which the iron nail is stroked	1	_
	Number of strokes		
	Length of the iron nail		
	Number of staples		
(b)	What should Cherie measure in order to con	me to a conclusion?	[1]

(c) Now, take an iron nail and stroke it with the bar magnet 30 times in one direction to magnetize it.



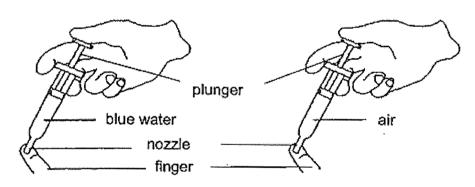
Place the iron nail near the staples and record down the number of staples [1] the nail attracted.

Number	of	staples	attracted:	

2. You are given two identical syringes. One syringe is filled with 10 ml of blue water while the other syringe is filled with 10 ml of air.

Follow what you see in the picture below.

One at a time, cover the nozzle of each syringe with a finger and push the plunger of the syringe.



(a) Record your observation in the table below.

[1]

Substance	Can the plunger be pushed in? (Yes/No)
blue water	
air	

(b) Explain your observation in part (a) using what you have learnt about the [2] properties of matter.

(C)	Predict what you will observe when the plunger is pushed into an identical syringe that is filled with 10 ml of sand.	[1]
(d)	Explain your answer.	[1]
		***************************************

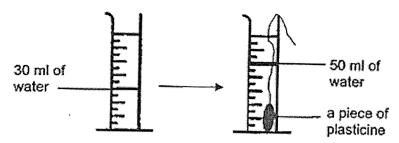


## Henry Park Primary School Primary 4 Science 2023 Weighted Assessment 2 Section B



Name:	(	)	Duration: 35 minutes
Class: Primary 4			Parent's Signature:
Section B [7 marks] This section consists of short-a and write the answers in the sp	answer and op paces provide	pen-ende d.	ed questions. Read each question carefull
Read each question carefully a	and write the a	answers i	in the spaces provided.
Yong Sheng placed a p shown below. Equal am	lastic rod and lounts of wax	a metal were pla	rod into a container of boiling water as aced on both rods.
boiling water ————	·	tic rod	metal rod
Fill in the blanks in the paragra	aph below to a	explain w	hich wax melts first.
Which wax will melt first?			[2]
Wax on the	rod will m	elt first.	
			heat than plastic. Heat from
the	passes	through	the metal rod to reach the
wax at a	rate		

Siti conducted an experiment by filling up a measuring cylinder with 30 ml of water.
 She then lowered a piece of plasticine into the measuring cylinder and observed that the water level rose to 50 ml.

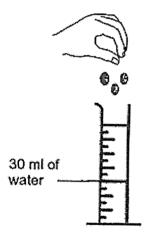


(a) What is the volume of the plasticine?

[1]

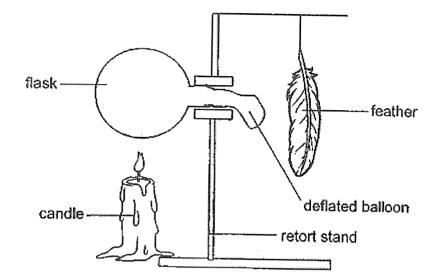
m

4. Siti took out the piece of plasticine and divided it into three smaller pieces. She placed the three smaller pieces of plasticine back into the same measuring cylinder without spilling any water.



(b) What would be the reading of the water level? Explain your answer using the properties of matter.

Shafiq set up a flask with a deflated balloon near a feather as shown below.
 The flask was supported by a retort stand. He heated the flask using a candle.



- (a) Predict what will happen to the feather after a while. [1]
- (b) Explain your answer for part (a). [2]



SCHOOL: HENRY PARK PRIMARY SCHOOL

LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : WA2 2030

## Section A

Q1)	a)
	Variables Kept the same
	Direction in which the Iron nail is stroked  ✓
	Number of strokes
	Length of the iron nail
	Number of staples used
	b)Cherie should measure the amount of staples attracted by the iron nail.
00)	c)9
Q2)	a) No
	Yes
	b) Air is a gas can be compressed and does not have a definite
	volume while water the blue is a liquid be compressed and have a
	definite volume.
	c) The plunger cannot be pushed in.
	d) Sand is a solid so it has a definite volume and cannot be
	compress.

## **SECTION B**

Q1)	Wax on the metal rod will melt first.
	Metal is a better conductor of heat than plastic. Heat from the boiling
	water passes through the metal rod to reach the wax at a faster rate.
Q2)	a)20
	b)50ml. The plasticine is a solid and solid have a definite volume.

Q3)	a) The feather will move away from the ballon.
	b) Air in the flask gained heat from the candle and expanded
	causing the ballon to inflate. The inflated ball pushed the feather.
Q4)	