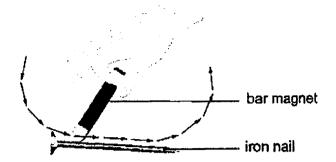


Henry Park Primary School Primary 4 Science 2023 Weighted Assessment 2 Section A

/	8

ad	all the instructions carefully before starting of	on this section.	
	Cherie wanted to investigate if the numbe strength of a temporary magnet. She was g	er of strokes by a bar magiven the following materials	gnet affects the
	Material list: 1 iron nail A bar magnet 10 staples		· .
)	Tick (/) the variables that must be kept the sto be a fair test.	same in order for this exper	iment [1]
	Variables	Kept the same	·
	Direction in which the iron nail is stroked		•
	Number of strokes		
	Length of the iron nail		
	Number of staples		



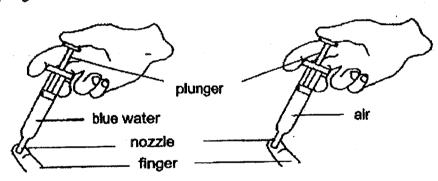
Place the iron nail near the staples and record down the number of staples [1] the nail attracted.

Number of	staples	attracted:	
HUHUUCI VI	JUDIO		

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)	syringe that is filled with 10 mi of sand.	[1]
(d)	Explain your answer.	[1]

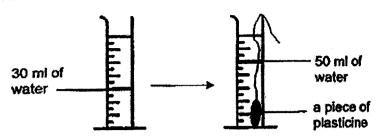


Henry Park Primary School Primary 4 Science 2023 Weighted Assessment 2 Section B



	(,	Duration: 35 n	nnutes	
Class: Primary 4			Parent's Signa	ature:	
Section B [7 marks] This section consists of short-are and write the answers in the sp	nswer and op aces provide	pen-ende d.	d questions. Re	ad each question care	əfull
Read each question carefully a	nd write the	answers i	n the spaces pro	ovided.	
Yong Sheng placed a placed a placed shown below. Equal amount	astic rod and ounts of wax	a metal were pla	rod into a contai ced on both rod	ner of boiling water as s.	3
- boiling water	plas	wa stic rod	metal rod		
Fill in the blanks in the paragra Which wax will melt first?	aph below to	explain v	vhich wax melts	first.	
Wax on the	rod will n	nelt first.		الما	
Metal is a					
the wax at a		s through	the metal rod	to reach the	

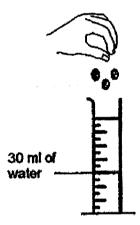
Siti conducted an experiment by filling up a measuring cylinder with 30 ml of water.
 She then lowered a piece of plasticine into the measuring cylinder and observed that the water level rose to 50 ml.



[1]

			 -

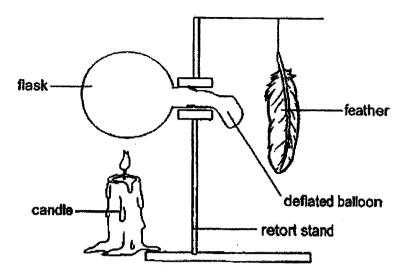
4. Siti took out the piece of plasticine and divided it into three smaller pieces. She placed the three smaller pieces of plasticine back into the same measuring cylinder without spilling any water.



(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

CONTACT:

Section A

Q1)	a) ·
	Variables Kept the same
	Direction in which the iron nail is stroked J
	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. 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.