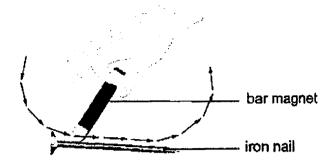


Henry Park Primary School Primary 4 Science 2023 Weighted Assessment 2 Section A



ead	all the instructions carefully before starting of	n this section.	·
•	Cherie wanted to investigate if the numbe strength of a temporary magnet. She was gi	r of strokes by a bar ma	gnet affects the
,	Material list: 1 iron nail A bar magnet 10 staples	ven die following meterial	5.
	Tick (/) the variables that must be kept the s	ame in order for this expe	riment [1]
a)	to be a fair test.		
a)	to be a fair test. Variables	Kept the same	
a)		Kept the same	
a)	Variables		
a)	Variables Direction in which the iron nail is stroked		

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



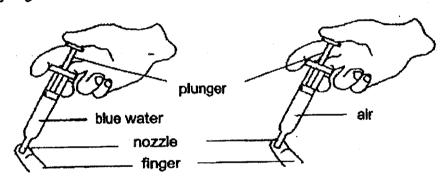
Place the iron nail near the staples and record down the number of staples [1] the nail attracted.

Number of	staples	attracted:	
HUHHUCH OF	JUAPIUS	- GIUGGICG:	*

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]

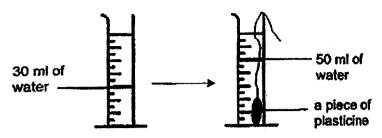


Henry Park Primary School Primary 4 Science 2023 Weighted Assessment 2 Section B



Name:	()	Duration: 35 minutes	
Class: Primary 4			Parent's Signature:	
Section B [7 marks] This section consists of short- and write the answers in the s	answer and c spaces provid	ppen-end∈ ed.	ed questions. Read each question care	fully
Read each question carefully	and write the	answers	in the spaces provided.	
Yong Sheng placed a shown below. Equal at	plastic rod an mounts of war	d a metal x were pla	I rod into a container of boiling water as aced on both rods.	3
boiling water	pla	wa wa	metal rod	
Fill in the blanks in the parag				
Which wax will melt first?			[2]	
Wax on the	rod will	melt first.	•	
			of heat than plastic. Heat from	
the	passe	es 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.

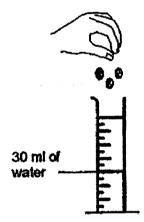


(a) What is the volume of the plasticit	(a)	a) Wi	nat is the	volume	of the	plasticine
---	-----	-------	------------	--------	--------	------------

[1]

mi

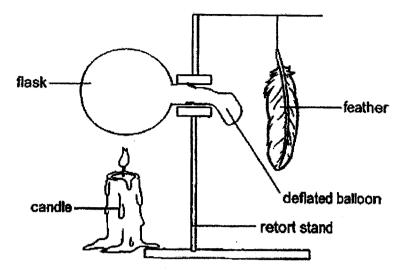
4. Siti took out the piece of plasticine and divided it into three smaller pieces. She placed the three smaller pieces of plasticine back into the same measuring cylinder without spilling any water.



(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	er 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		
	Number of strokes		
	Length of the iron neil	<u> </u>	
	Number of staples used	<u> </u>	
	b)Cherie should measure the am nail. c)9	ount of staples	s attracted by the iron
Q2)	a) No Yes	• .	
	b) Air is a gas can be comproved while water the blue definite volume.		
	c) The plunger cannot be pu	shed in.	
	d) Sand is a solid so it has a compress.	definite volum	e and cannot be

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.

b) Air in the flask gained heat from the candle and expanded causing the ballon to inflate. The inflated ball pushed the feather	causing the ballon to inflate. The inflated ball pushed the feath	b) Air in the flask gained heat from the candle and expa	nded
			iidou
)(1)	Q4)	causing the ballon to inflate. The inflated ball pushed	the feather.
		Q4)	