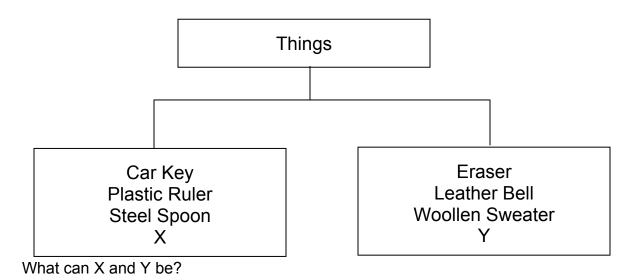
Primary Four Science Continual Assessment One

Section A (30 x 2 marks = 60 marks)

For each question 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write your answer in the box provided.

- 1. Which one of the following statements is <u>incorrect</u>?
 - (1) Papers are made from things that were once alive.
 - (2) Some living things are made from non-living things.
 - (3) Wooden furniture is made from things that were once alive.
 - (4) Some non-living things are made from things that were once alive.

2. The following things are classified according to whether they are made of materials that come from living or non-living things.

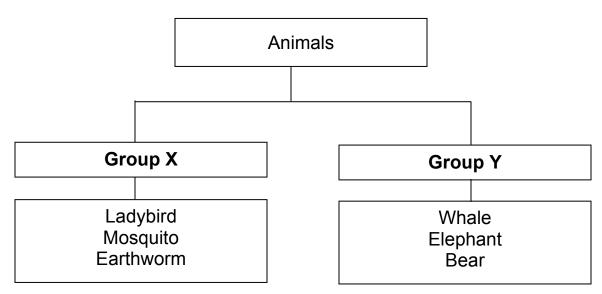


	X	Υ
(1)	Cellophane Bag	Wooden Chair
(2)	Feather Duster	Tyre
(3)	Rubber Band	Cotton String
(4)	Stapler	Thumbtack

3. Four pupils have been given an example of an animal for each of the following groups. Who has made mistakes in his/her examples?

	Pupil	Carnivore	Herbivore	Omnivore
(1)	Jenny	Dragonfly	Rabbit	Duck
(2)	Tom	Tiger	Squirrel	Pig
(3)	Alex	Horse	Cow	Mouse
(4)	Wendy	Crocodile	Giraffe	mynah

4. Study the classification diagram below.



Which one of the following are suitable headings for Groups X and Y?

	X	Υ
(1)	Plant Eaters	Animal Eaters
(2)	Small Animals	Large Animals
(3)	Animals that lay eggs	Animals that give birth to their young
		alive
(4)	Animals that live on land only	Animals that live in water only

(1) A and B only

(2) B and C only

(3) C and D only

(4) A, B, C and D

5. The table below shows the characteristics of four animals W, X, Y and Z.

		Number of legs				
Animal	2	4	6	8	Feelers	Wings
W	\				×	
Х		/			\times	×
Υ			/		/	/
Z				/	×	×

Which animal is most likely to be an insect?

- (1) W
- (3) Y

- (2) X
- (4) Z

6. A living thing has the following characteristics:

- A. A segmented body
- B. Three pairs of legs
- C. One pair of feelers

The living thing described above is most likely to be a _____.

(1) spider

(2) frog

(3) cockroach

(4) centipede

7. Flowers need to be ______ before fruits and seeds are produced.

- A. cultivated
- B. pollinated
- C. germinated
- D. fertilized
- (1) A and B only

(2) B and D only

(3) C and D only

(4) A, B, C and D

8.		of the following senses did Hua C s warm and spicy?	Chong	use wh	en she sold th	at the bowl of
	В. С.	Sense of touch Sense of taste Sense of smell Sense of hearing				
	(1) (3)	A and B only C and D only	(2) (4)		D only C and D	
9.	Which lungs?	one of the labeled parts of a skele?	etons a	as shov	vn below prote	cts our heart and
					A	
					B C	
	(1)	A] /.	(2)	В	
	(3)	C		(4)	D	
10.	Which	one of the following is not true ab	out a s	solid?		
	(1) (2) (3) (4)	A solid must be a matter A solid has definite volume A solid can never change its shap A solid can have different types of		re		

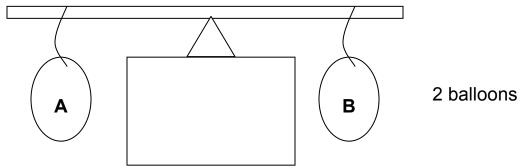
11. The table below shows some properties of green beans, honey and carbon dioxide. Which of them are <u>correct</u> for all the three kinds of matter?

	Kinds of Matter				
	Properties	Green beans	Honey	Carbon dioxide	
Α	Has mass	V	×	V	
В	Occupies space	V	V	×	
С	Has a definite shape	V	×	×	
D	Has a definite volume	V	V	×	
Е	Can be compressed	×	×	<u> </u>	

- (1) A, B and C only
- (3) C, D and E only

- (2) B, C and D only
- (4) A, C and E only

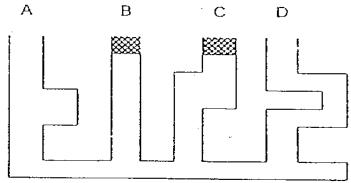
12. Two balloons of the same size are balanced on two ends of a bar as shown below.



Balloon B is then pierced and the air is allowed to escape completely. The bar is observed to swing downwards on the side with Balloon A. What does this experiment show?

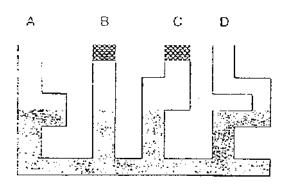
- (1) Air has mass
- (2) Air has escaped
- (3) Air occupies space
- (4) Balloon A is lighter than Balloon B when they are both deflated

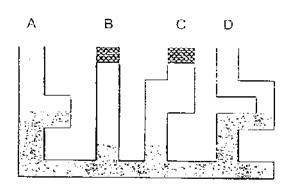
13. Study the diagram as shown below carefully.



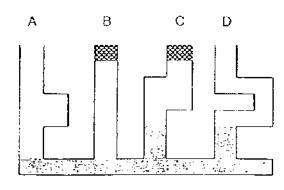
The diagram shows a communicating vessel. The openings B and C are covered with stoppers. 500 ml of water is poured simultaneously into the opening at A and D. Which of the following diagram shows the **correct water level**?

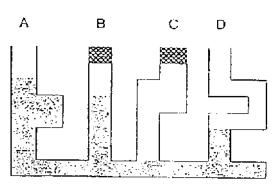
(1)



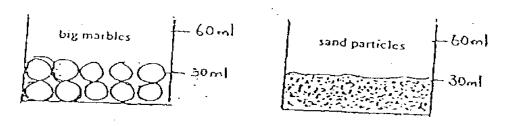


(3)





14. The diagram shows two beakers X and Y. Beaker X contains big marbles and Beaker Y contains sand particles.

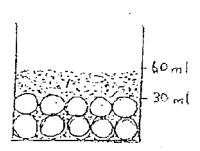


Beaker X

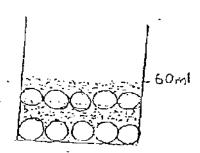
Beaker Y

The sand beakers in Beaker Y are then poured into beaker X. Which one of the following results is most likely to be correct?

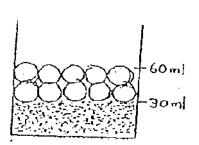
(1)



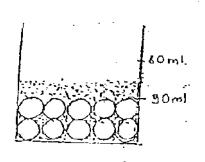
(2)



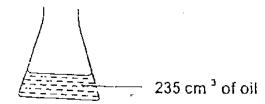
(3)



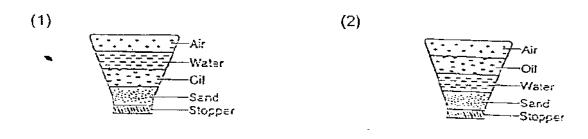
(4)

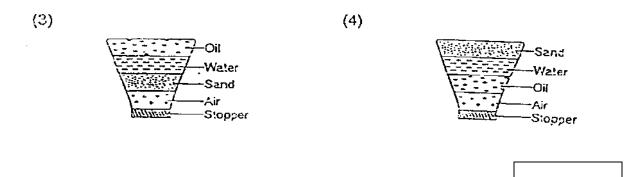


15. Susanna poured 235 cm³ of oil into a flask.



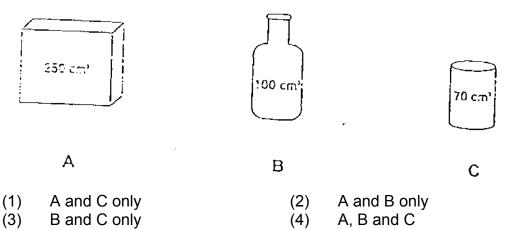
She added a handful of sand and some water before sealing the flask with a stopper. Then she inverted the flask. Which one of the following diagrams shows the **correct position** of the contents of the flask after a few hours?



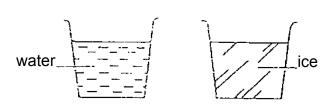


16. Study the three containers carefully.

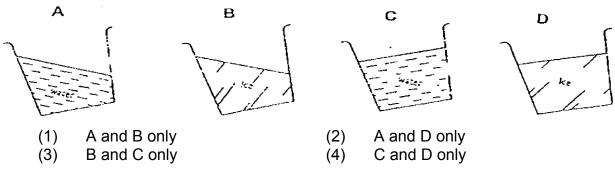
If all the air in a 200 cm³ bottle is poured into each container A, B and C respectively, which of the containers will be able to hold all the air?



17. The diagram below shows a glass of water and a glass of ice that have just been taken out of a freezer.



Which of the diagram show what is observed when the two glasses are tilted at an angle as shown below?

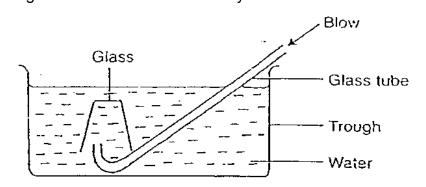


18. Four types of matter are described in the table below.
Study the table carefully and decide which one of the following is **correctly** described.

Type of Matter	Definite	Definite	Occupies	Can be
	Shape	Volume	Space	compressed
Carbon dioxide	No	No	Yes	No
Cotton wool	No	Yes	No	Yes
Cooking oil	No	Yes	Yes	No
Ping pong ball	No	Yes	Yes	Yes

- (1) Carbon dioxide
- (3) Cooking oil

- (2) Cotton wool
- (4) Ping pong ball
- 19. Look at the diagram as shown below carefully.



What can be observed when air is blown into the glass tube?

- (A) A water fountain will form
- (B) Water will rush up the glass tube
- (C) Air bubbles will be seen in the glass
- (D) Water will flow out from the glass into the trough
- (1) A and B only

(2) A and C only

(3) B and D only

(4) C and D only

20.		ene pushed an empty plastic bottle into a basin of waters as shown below. n, she unscrews and removes the bottle cap. Which of the following will take e?			
	(A) (B) (C) (D)	No water enters the plastic bottle Water rushes into the plastic bottl Air in the plastic bottle becomes of Bubbles of air escape to the surfa	le compre		
	(1) (3)	A and C only B and C only	(2) (4)	A and D only B and D only	
21.	Which it?	one of the following objects can o	change	from a solid to a liquid	d when we heat
	(1) (2) (3) (4)	Ice Wooden ruler Oxygen gas Cooking oil			
22.	glass	fills a glass completely with water of water. He notices that some of ting explains why this happens?		•	•
	(1) (2) (3) (4)	The marbles repel water The marbles take up space in the The marbles and water cannot be The marbles have a definite shap	e mixed	together	

23. Study the table below carefully.

Volume of water	45 ml
Volume of water + stone	78 <i>ml</i>
Volume of cylinder	100 <i>ml</i>

What is the volume of the stone?

(1) 22 ml

(2) 33 ml

(3) 45 *ml*

(4) 55 ml

24. Study the table below carefully.

	Definite Shape	Definite Volume	Once Alive
Object X	No	Yes	Yes

Which of the following is Object X?

- (1) Saliva
- (2) Fish ball
- (3) Carrot juice
- (4) Wooden chair

25. Study the table below carefully.

	Item	State of Matter
(A)	Cloth	Solid
(B)	Turpentine	Liquid
(C)	Sound	Gas
(D)	Snow	Liquid

Which of the above items are classified wronly?

(1) A and B only

(2) A and D only

(3) B and C only

(4) C and D only

	A : density	B : mass	C : volume	D : shape
(1) (3)	A only B and C only	(2) (4)	_	
Stu	dy the diagram belo	ow carefully.		
thur	nb and tried to pus		placed one end of the s. She found that she	
(1)	water occupies water has a defi water cannot be	space nite volume compressed		
(2) (3) (4)	water takes the	snape of the contain	er	
(3)	water takes the	snape of the contain	er	
(3) (4)		n water and sugar is		

29. What properties does a gas have?

- (A) It does not burn
- (B) It has a definite shape
- (C) It can be compressed
- (D) It has mass
- (1) A and C only

(2) B and D only

(3) B and C only

(4) C and D only

30. Study the table below carefully.

Volume of water	70 ml
Volume of water + Solid A	100 <i>ml</i>
Volume of water + Solid A + Solid B	135 <i>ml</i>
Volume of water + Solid A + Solid B + Solid C	160 <i>ml</i>

Arrange the solids (A, B and C) according to their volumes from the smallest to the biggest volume.

(1) A, B, C

(2) B, C, A

(3) C, B, A

(4) C, A, B

Section B (40 marks)

Write your answer for each question 31 to 46 in the blank spaces provided. Marks will be deducted for wrong spelling of key words.

31. Study the list animals given below.

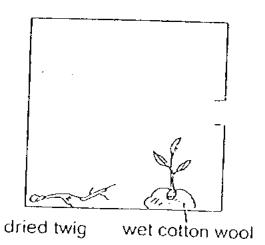
Bee	Butterfly	Crow	Mosquito
Mynah	Moth	Pigeon	Sparrow

All these animals as shown above have wings to help them fly. Classify these animals into 2 group based on the characteristics they have in common. (2m)

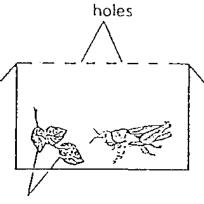
Group A	Group B

32. A dried twig and a seedling were placed in a box with an opening on the side of the box. The box was then left in a garden for a few days.

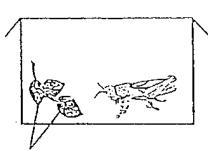
Draw in the empty box as shown below what you will see in a few days' time. (2m)



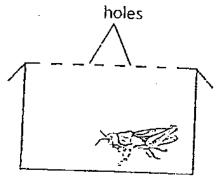
33. The four set-ups as shown were left in the garden untouched for one week.



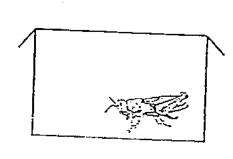
leaves Set - up A



leoves Set-up B



Set - up C

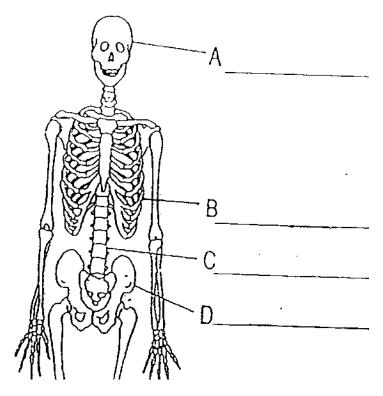


Set-up D

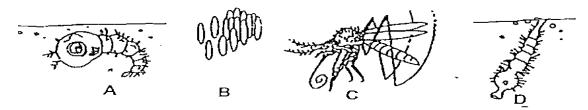
(a) Which grasshopper(s) will not survive after one week? (1m)

(b) What can you conclude from this experiment?Write down <u>ONE</u> statement as a conclusion about what a living thing needs.(1m)

34. Fill in the names of the bones in the skeleton as shown. (2m)



35. These are the different stages of the life cycle of a mosquito as shown below. (2m)

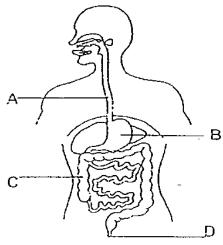


(a) Name the different stages of the life cycle of a mosquito on the space provided.

A: _____ C: ____ B: D: 35 (b) Using the letters in the diagram above, arrange the life cycle of a mosquito in the right order. (1m)

First	Second	Third	Fourth

36. The diagram below shows our digestive system. Use the diagram to answer questions 36(a) and 36(b).

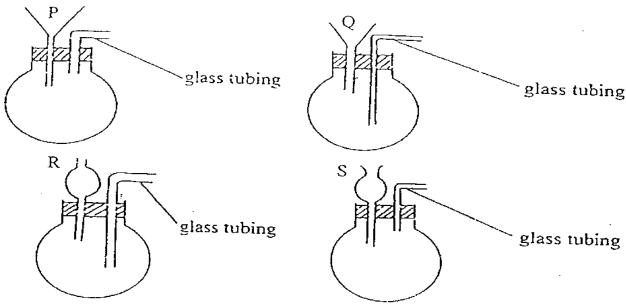


(a) Name the following parts of the digestive system. (1m)

I. A: _____

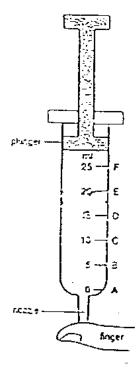
(b) What happens to the food when it goes into the stomach (B)? (1m)

37. A class of students was given 4 funnels, labeled P, Q, R and S. They were asked to investigate which one of these funnels would allow water to flow through it most quickly. Using the following set-ups as shown below, they poured some water into each funnel and started the stopwatch to find out the time taken for the water to flow down into the flask.



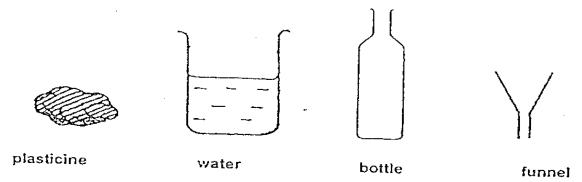
- (a) To make this experiment a fair test, write down two variables which the students should keep the same for ALL the set-ups. (1m)
- (i) _____
- (ii) _____
- (b) The students had included a glass tubing in each of the above set-ups. What do you think is the purpose of this glass tubing in this experiment? (1m)

38. 20 ml of alcohol water is placed in a syringe as shown below.

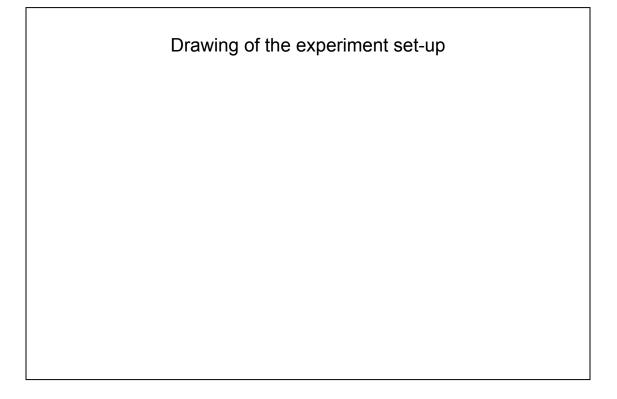


- (a) Indicate by drawing where the water level in the syringe should be as shown in the diagram above? (1m)
- (b) Can the plunger be pushed further in if the nozzle is covered with a finger? Explain your answer. (1m)

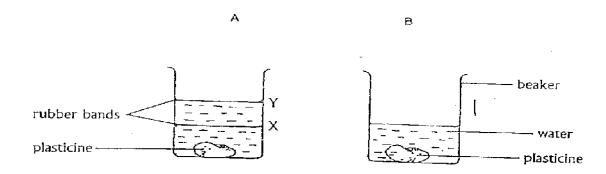
39. The diagram below shows some materials and apparatus required to carry out an experiment.



In the space below, draw and label how you would set up the materials and apparatus to show that air occupies space in the bottle. (3m) [You are to make use of all the materials shown]

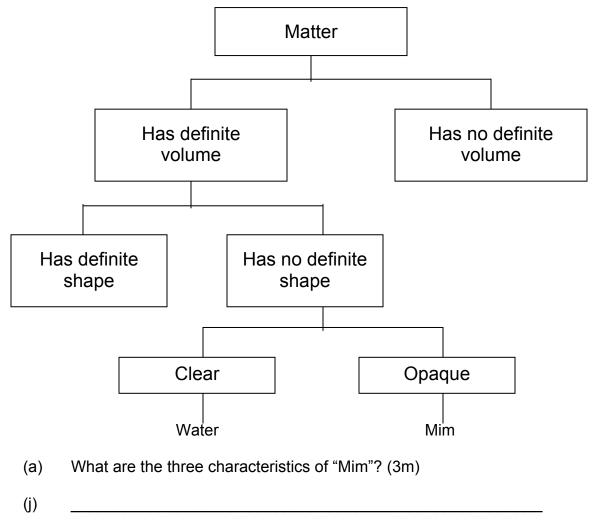


40. Samuel poured some amount of water into Beaker A and marked the level, X with a piece of rubber band. He then lowered a piece of plasticine gently into same beaker and marked the new water level, Y with another rubber band.



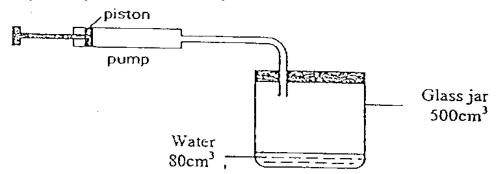
- (a) He then took the plasticine out and moulded it into a new shape. What would the new volume of the plasticine be? Mark the water level on Beaker B of Samuel lowers the moulded plasticine in to the water in Beaker B. (1m)
- (b) Explain your answer in part (a). (1m)

41. Study the classification table below and answer the questions that follow.



- (ii) ____
- (iii) _____
- (b) What is the difference between water and "Mim"? (1m)

42. Study the diagram below carefully. The pump is connected to a glass jar. The capacity of the jar is 500 cm³. The jar contains 80 cm³of water.



(a) When the piston is pushed completely in 50 cm³ of air is forced into the jar. What is the volume of air in the jar? (1m)

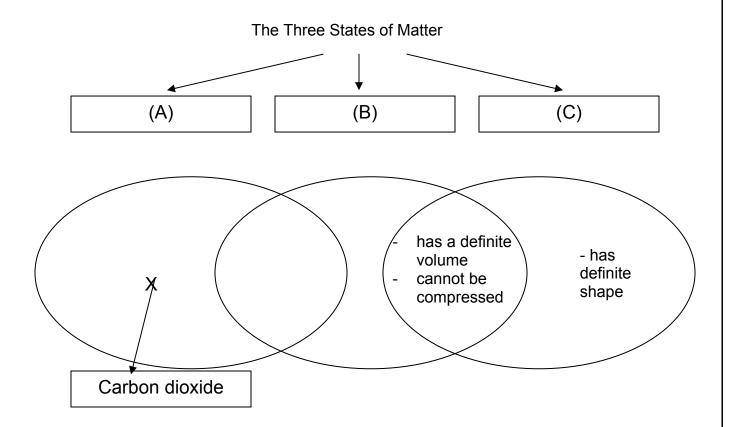
The volume of air in the jar is



(b) Did the volume of water in the jar change when the piston was completely pushed in?(1m)

(c) Explain your above answer, 42(b)? (1m)

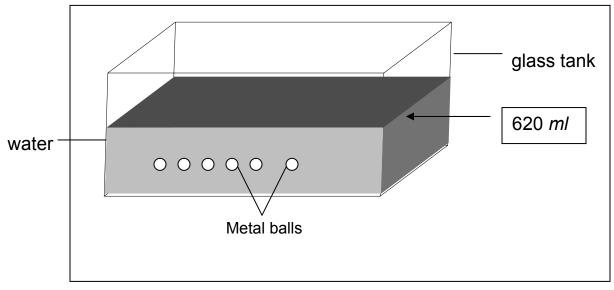
43. Study the Venn Diagram showing the different states of matter carefully and use it to answer questions 43(a) and 43(b).



What titles would you put in boxes labeled (A), (B) and (C) for the above Venn Diagram. (3m)

- (A):
- (B):
- (C):

44. Samuel put the metal balls slowly into the tank of water.

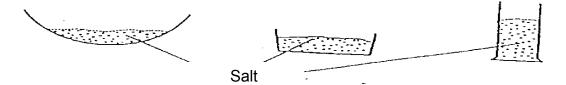


(a) What happen to the water level when the metal balls are put in? (1m)

- (b) Explain your answer 44(a) above. (1m)
- (c) If the volume of water in the tank is 500 ml, find the volume of each metal ball. (1m)

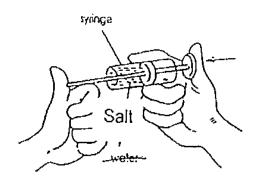
The volume of each metal ball is _____ cm³

45. Ali put spoonfuls of salt into each of the containers below.



(a) Salt is a solid but why does it take the shape of the container? (1m)

(b) Ali put the salt in a syringe and tried to compress it. He managed to push the plunger in for a few millimeters. Why was Ali able to "compress" the salt? (1m)



46 (a) What are two characteristics of all matter? (2m)

(i) _____

(ii) _____

(b) Name 2 things that are around us which are not matter (1m)