Pei Chun Public School
Continual Assessment 1 – 2004
Science
Primary 4

Name : _____ ( ) Date : 4 March 2004

Class : Pri. 4 ( ) Parent's Signature : _____

Science Teacher : _____ Marks : 100

Time : 1h 30 min

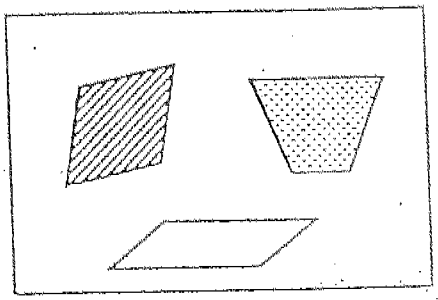
Section A (25 x 2 marks)
For each question, choose the most suitable answer and shade its number (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

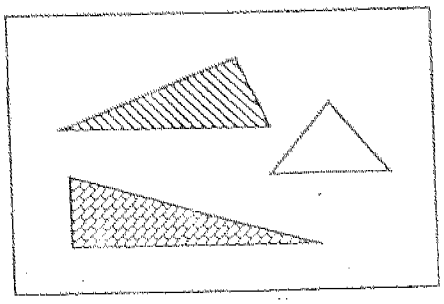
1. Plants and animals are alike because they _____.

A) need oxygen, food and water to stay alive
B) can move by themselves
C) can make their own food
D) can have young

(1) A and B (2) B and D
(3) A, B and D (4) A, C and D ( )

2.

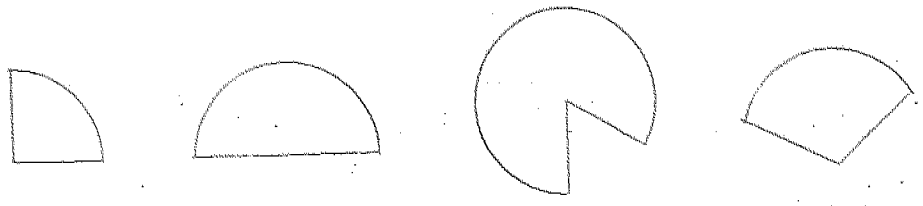




The above objects are grouped according to _____.

(1) their sizes
(2) their shapes
(3) the patterns on them
(4) the number of sides

3. Which one of the following shapes is the odd one out?



(1) (2) (3) (4) ( )

4. How are these animals grouped?

Group A	Group B	Group C	Group D
crocodile	bat	turtle	kingfisher
snake	whale	prawn	sparrow

They are grouped according to _____.

(1) where they live
(2) the way they move
(3) their outer coverings
(4) the type of food they eat

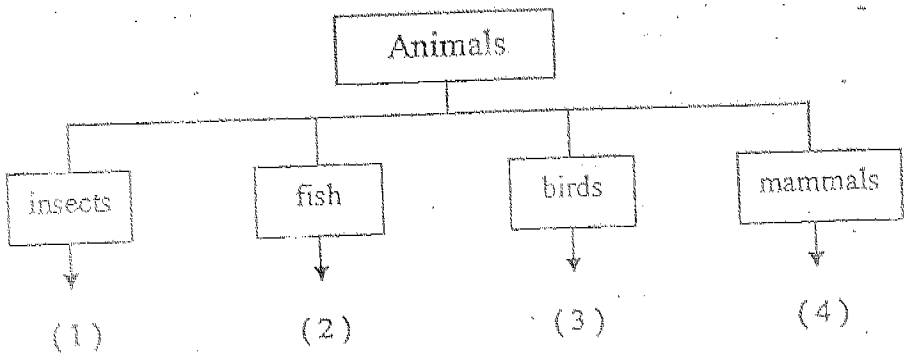
( )

5. Study the classification table below.
Which pair of animals is **wrongly** grouped?

	Give birth	Lay eggs
(1)	platypus	owl
(2)	rabbit	moth
(3)	guppy	seahorse
(4)	dolphin	penguin

( )

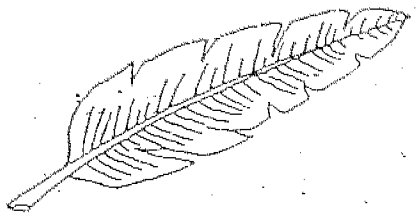
6. Where would you put 'mudskipper' in the classification table below?



( )

7. Which one of the following leaves belongs to a tapioca plant?

(1)



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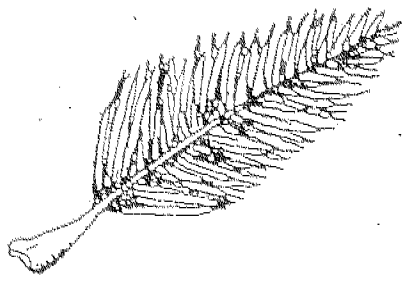
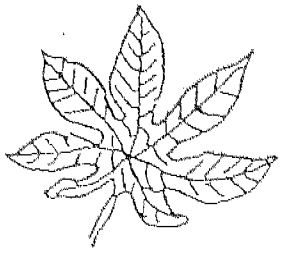
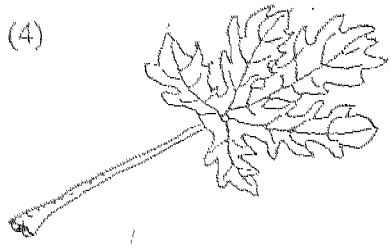


(3)



(4)



( )

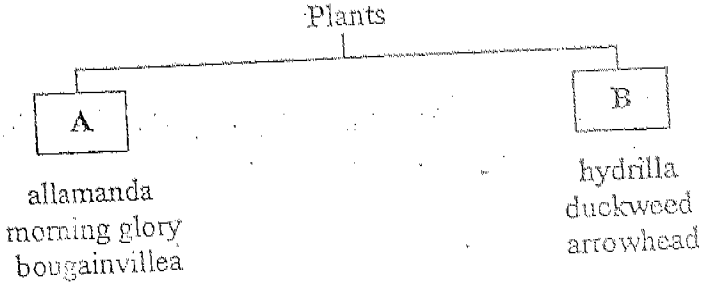
8. Which of the following are the functions of chlorophyll in plants?

A) traps sunlight
B) takes in carbon dioxide
C) gives leaves their colour
D) enables leaves to make food

(1) A and B
(2) C and D
(3) A, C and D
(4) B, C and D

( )

9.



In the classification diagram above, how are the plants grouped?

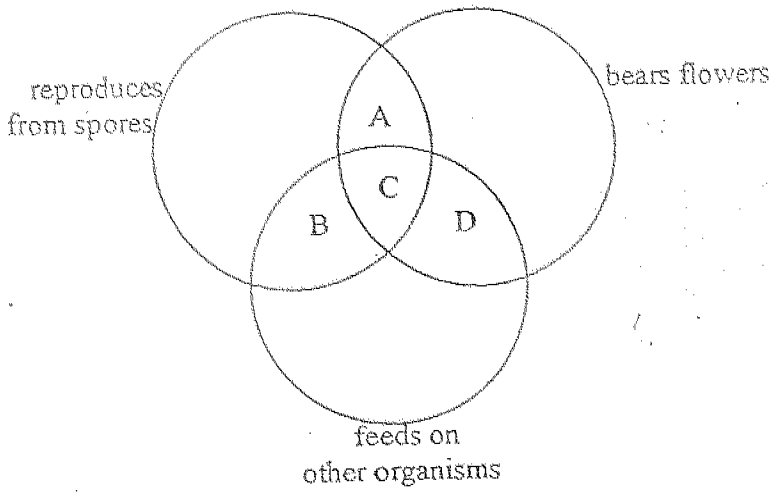
	A	B
(1)	land	water
(2)	poisonous	non-poisonous
(3)	shrubs	herbs
(4)	flowering	non-flowering

( )

10. Which one of the following statements is false?

(1) Grass is a flowering plant.
(2) Ferns and mosses do not bear flowers.
(3) Non-flowering plants reproduce from spores.
(4) Non-flowering plants do not have chlorophyll. ( )

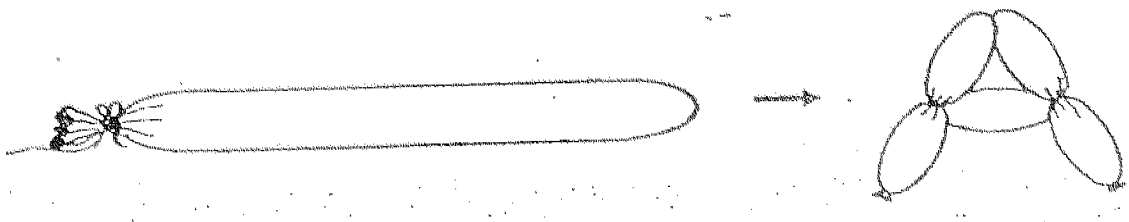
11. Study the Venn diagram below carefully.



Where would you put 'mushroom' in the Venn diagram above?

(1) A
(2) B
(3) C
(4) D ( )

12. A clown blew up a balloon and then twisted it to form the letter 'A' as shown below.



By doing so, he has changed the _____ of the air in the balloon.

A) mass
B) shape
C) volume
D) colour

(1) A and B
(2) A and C
(3) B and C
(4) B, C and D ( )

13. Which one of the following is not matter?

(1) dew
(2) wax
(3) steam
(4) echo

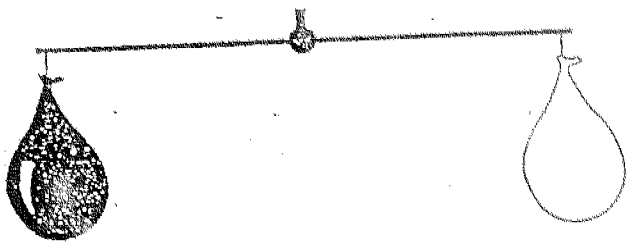
( )

14. The volume of an object tells us how _____

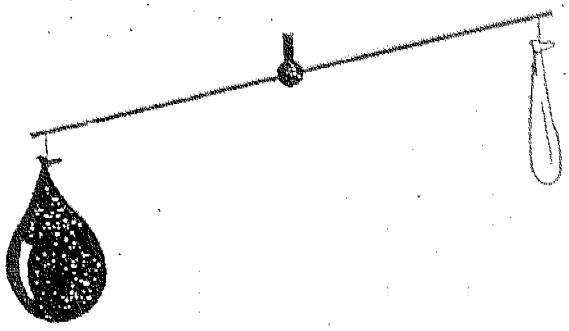
(1) hot or cold the object is
(2) heavy or light the object is
(3) much area the object occupies
(4) much space the object occupies

( )

15. Two inflated balloons are balanced as shown below.



The white balloon is then deflated.



What can be concluded from this experiment?

(1) Air has mass.
(2) Air has no definite volume.
(3) The mass of the black balloon has increased.
(4) Different coloured balloons have different masses.

( )

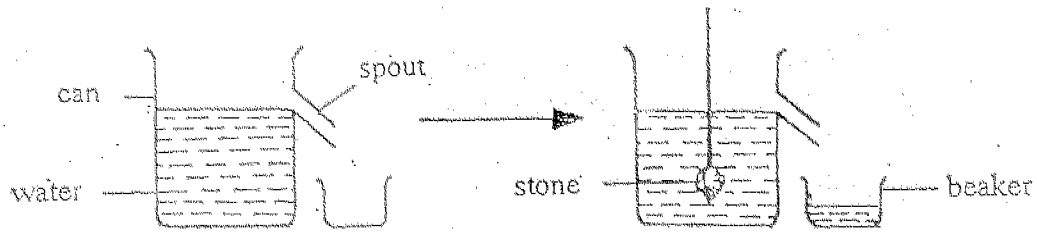
16. Milk and carbon dioxide are matter because they _____

A) have mass
B) occupy space
C) have definite volume
D) have no definite shape

(1) A and B
(2) B and D
(3) A, C and D
(4) B, C and D

( )

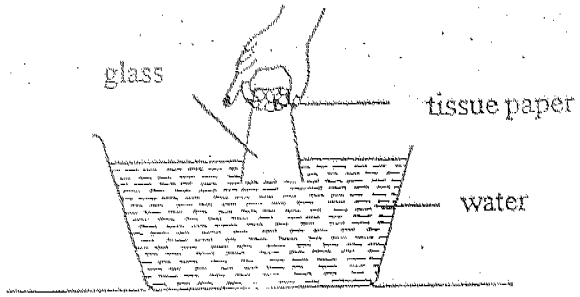
17. A can with a spout is filled with water as shown below.



When a stone is lowered into the can, the water flows into a beaker.
This experiment is to show that _____.

(1) water has mass
(2) the stone takes up space
(3) water has no definite shape
(4) the stone has a definite volume ( )

18. Yamin puts a piece of tissue paper into the bottom of a glass. She then inverts the glass into a basin of water as shown below.



What happens when the glass is fully pushed into the water?

(1) The water fills the glass halfway and the paper is wet.
(2) The water fills the glass a little and the paper remains dry.
(3) The water fills the glass completely and the paper is very wet.
(4) The water does not enter the glass at all and the paper remains dry. ( )

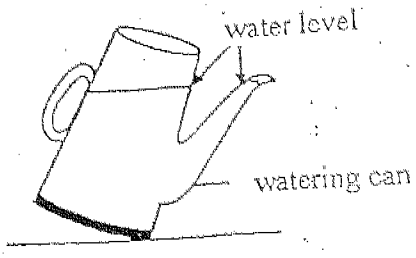
19. In which of the following is/are tap water and ice cubes different?

A) They are in different states.
B) They are in different temperatures.
C) They are made up of different substances.

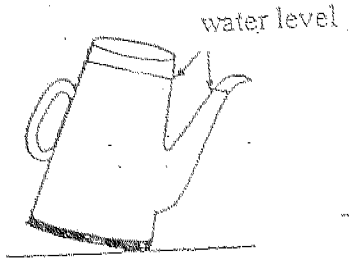
(1) A only
(2) B only
(3) A and B
(4) B and C ( )

20. Which one of the diagrams below shows the correct water level in the watering can?

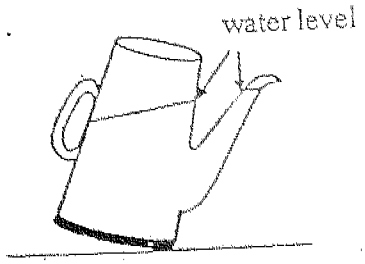
(1)



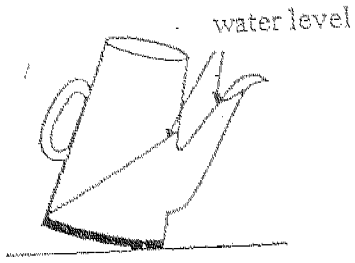
(2)



(3)

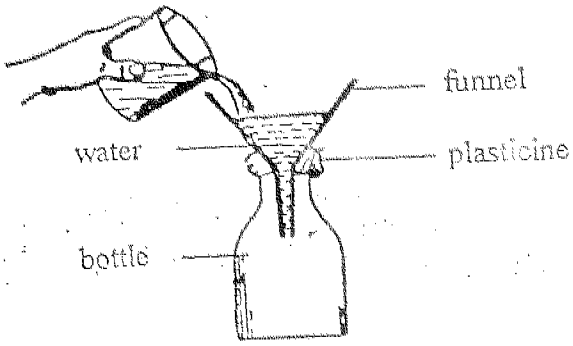


(4)



( )

21. Alex poured water quickly into a funnel which is fitted tightly to the mouth of a bottle with plasticine as shown in the diagram below.



Which one of the following explains why the water does not flow into the bottle?

(1) Air takes up the space in the bottle.
(2) The opening in the funnel is too big.
(3) The air in the bottle cannot be compressed.
(4) The plasticine is fitted too tightly to the funnel.

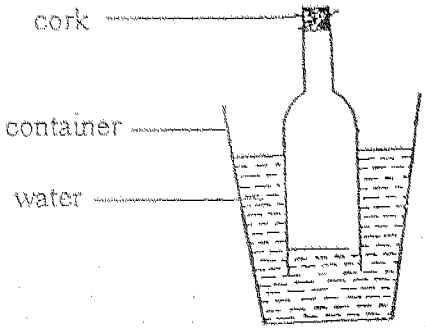
( )

22. Which one of the following is true when water freezes?

A) Its volume increases.
B) It loses heat to its surrounding.
C) It gains heat from its surrounding.
D) It changes from liquid state to solid state.

(1) A and B (2) B and D
(3) A, B and D (4) A, C and D ( )

23. A plastic bottle with its bottom cut off is lowered into a container of water as shown in the diagram below.



What will happen when the cork is removed?

A) The water level in the container will fall.
B) The water level in the bottle will rise.
C) The water will fill up the whole bottle.
D) Air will be forced out of the bottle.

(1) A and B (2) A and D
(3) B and C (4) A, B and D ( )

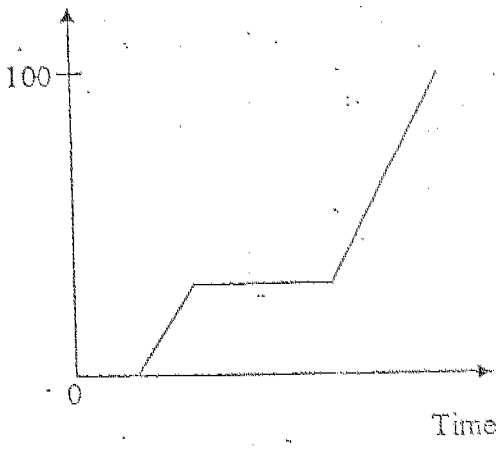
24. Ali wanted to find out if the amount of water affects how fast water evaporates. He filled 2 containers with water and left them in the open air. What variables must be kept the same in order to have a fair test?

A) Amount of water
B) Temperature of water
C) Size of the containers
D) Type of containers used
E) Place where the containers are put

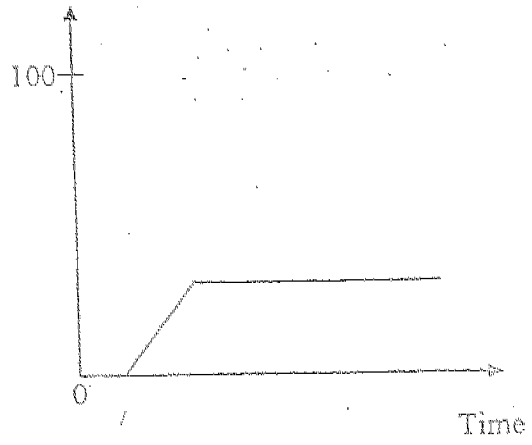
(1) A, B and C (2) A, B, D and E
(3) A, C, D and E (4) B, C, D and E ( )

25. Some ice cubes are left in a bowl on a table for an hour. The temperature of the ice cubes are taken and plotted on a graph. Which one of the following graphs correctly shows the changes in temperature of the ice cubes ?

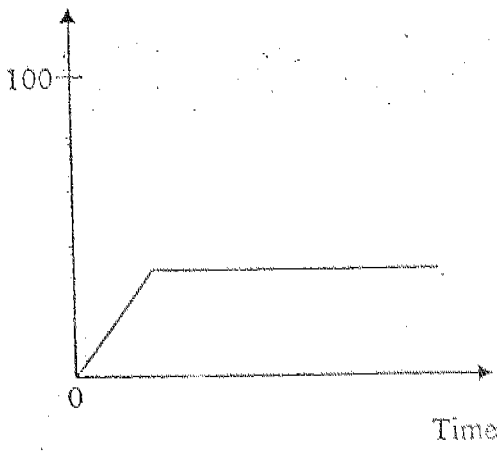
(1)



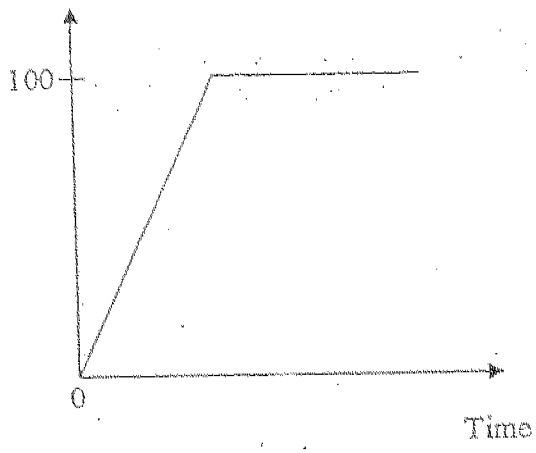
(2)



(3)



(4)



( )

For Questions 26 to 30, please refer to Booklet K.

End of Section A

Pei Chun Public School
Continual Assessment 1 – 2004
Science
Primary 4

Name : _____ _____ ( ) Date : 4 March 2004

Class : Pri. 4 ( ) Parent's Signature : _____

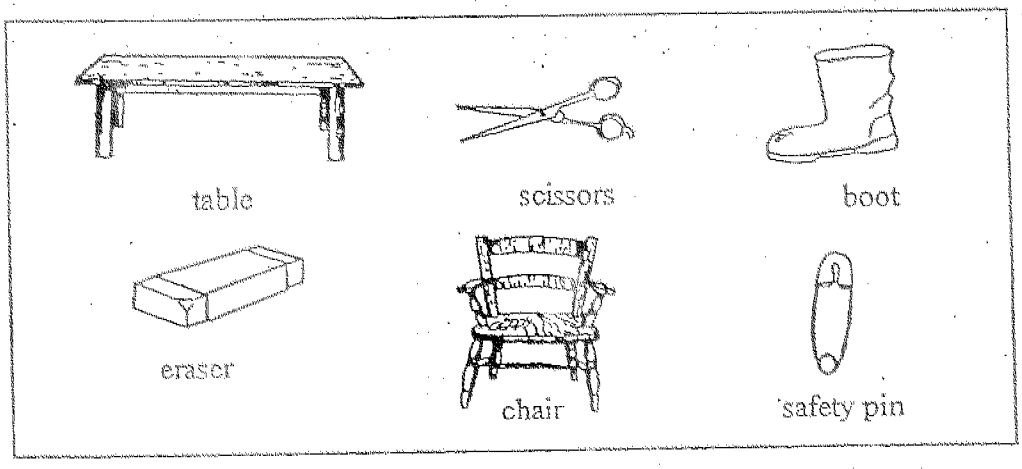
Science Teacher : _____

Time : 1h 30 min

Marks for Section A	60
Marks for Section B	30
Marks for Booklet K (exclude Section A Qns. 26 to 30)	10
Total marks	100

Section B (30 marks)
For questions 31 to 42, write the answers in the spaces provided.

31(a) Study the pictures shown below and put them into 3 different groups. (1m)



Group A	Group B	Group C

(b) How do you group the objects in (a)? (1m)

The objects are grouped according to _____

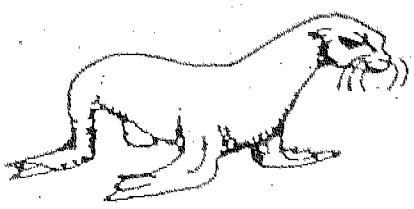
_____

32. Put the following animals into the correct group in the table below. (3m)

eagle	bear	duck
caterpillar	frog	giraffe

Plant Eaters	Animal Eaters	Plant and Animal Eaters

33.



seal

bat

The above two animals belong to the same group of animals.

(a) Which group of animals do they belong to? (1m)

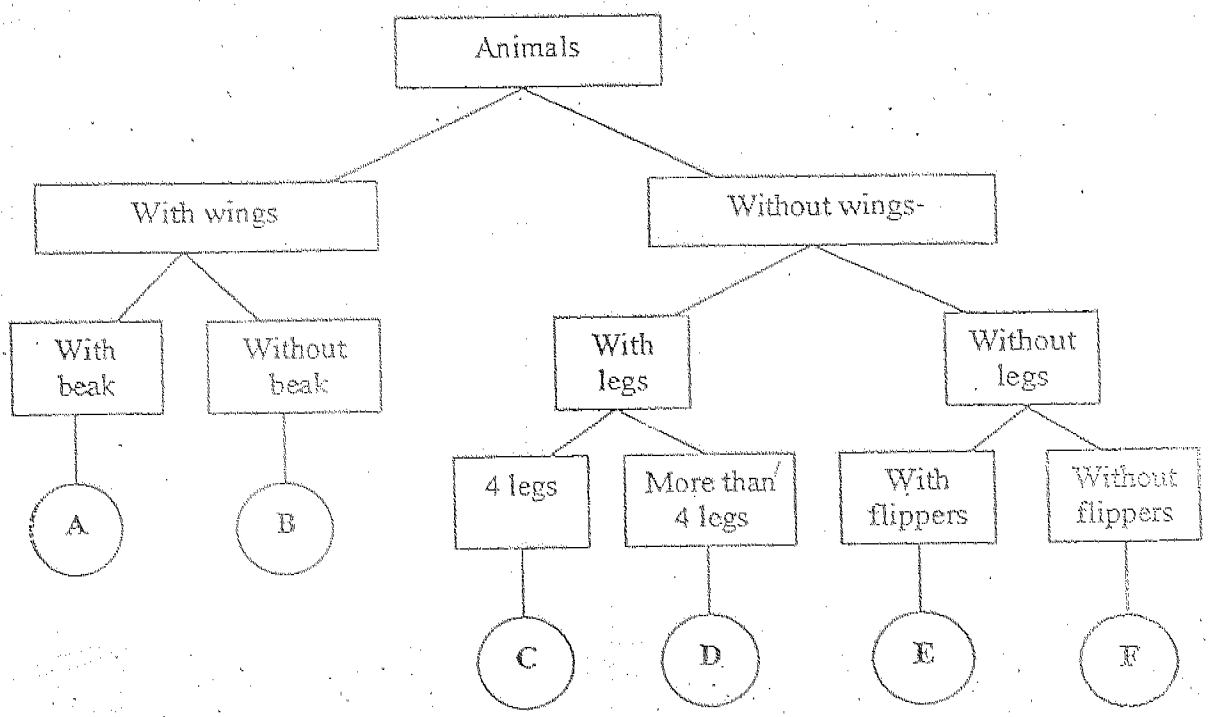
_____

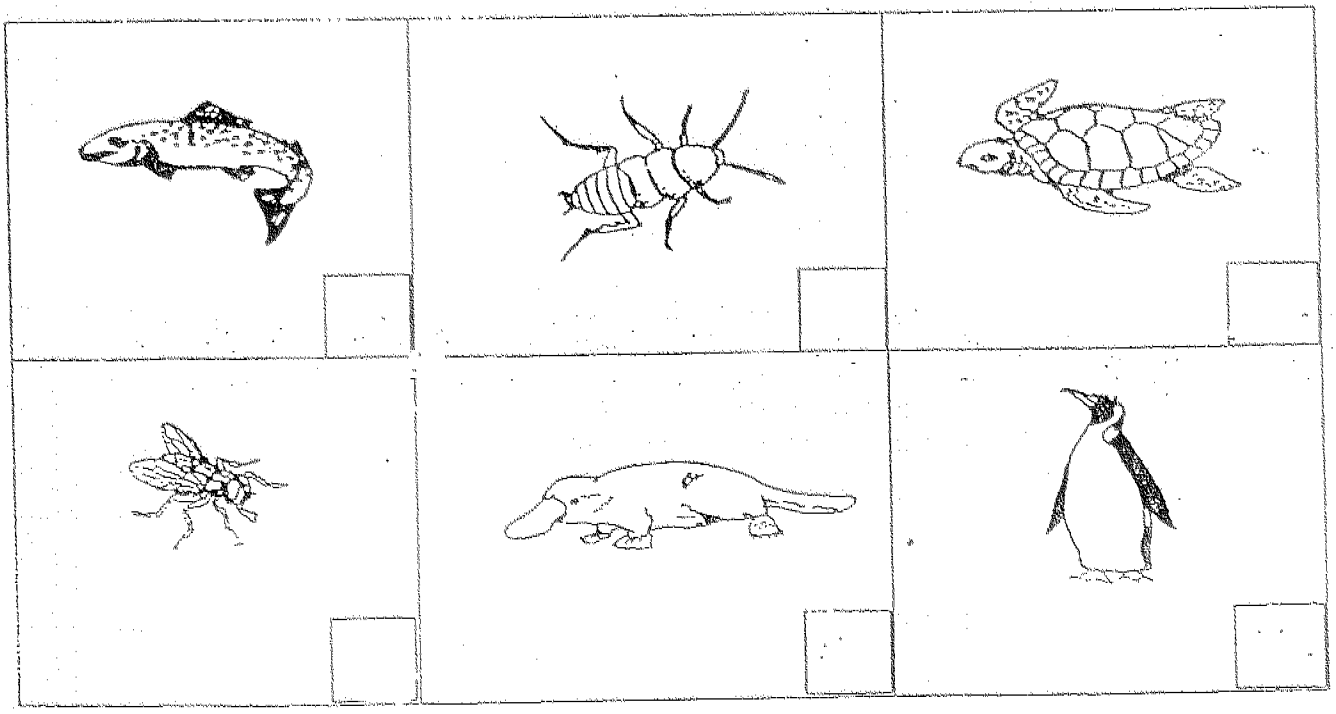
(b) Write down two characteristics of the above two animals which show that they belong to the same group of animals. (2m)

(i) _____

(ii) _____

34. Look at the classification key shown below for different types of animals. Use the key to identify the animals A, B, C, D, E and F. Write the correct letters in the boxes provided. (3m)





35. Fill in the blanks with the correct words. (2m)

(a) The leaves and branches of a tree give the tree its _____.

(b) The trunk and branches of a tree are covered by an outer covering called the _____.

(c) A fruit of a plant is developed from a _____.

(d) Seeds are important to a plant because they help the plant to _____.

36. Write "T" for a true statement and "F" for a false statement in the boxes provided. (2m)

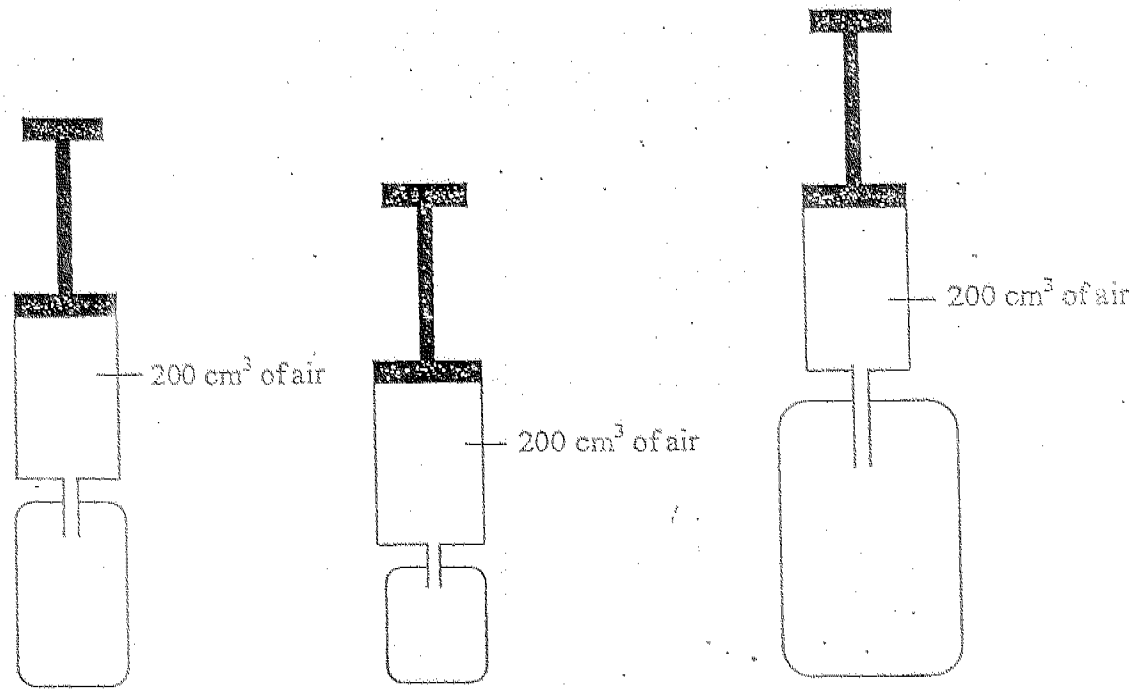
(a) Fungi depend on plants and animals for food. ☐

(b) Ferns and mould are fungi because they reproduce from spores. ☐

(c) Bacteria are harmful to our body. ☐

(d) Yeast is a tiny living thing. ☐

37. The diagrams below show the volume of air in each container.



200 cm^3 of air is pumped into each container with each stroke of the pump.

(a) What is the volume of air in each container now? (1m)

i) Container A : _____ cm^3

ii) Container B : _____ cm^3

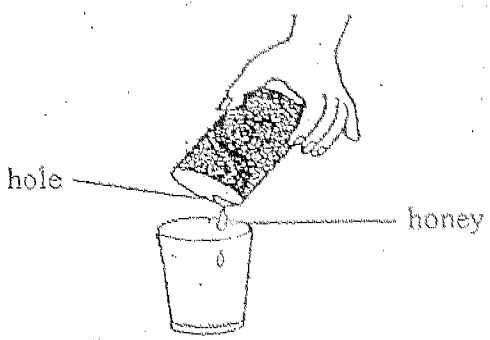
iii) Container C : _____ cm^3

(b) Explain your answer in (a). (1m)

_____

_____

38. Sulin made a hole in a can of honey. She tried pouring the honey out but the honey flowed out very slowly as shown in the diagram below.



(a) Suggest a way to allow the honey to flow out of the can faster without opening the can. (1m)

_____

_____

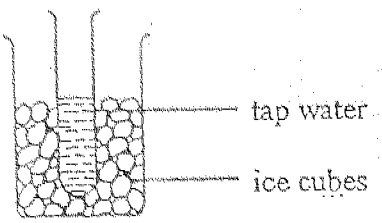
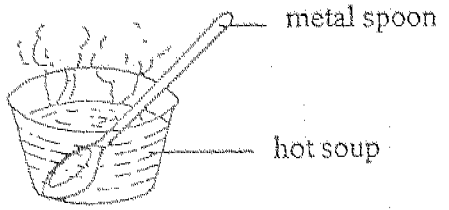
(b) Explain your answer in (a). (1m)

_____

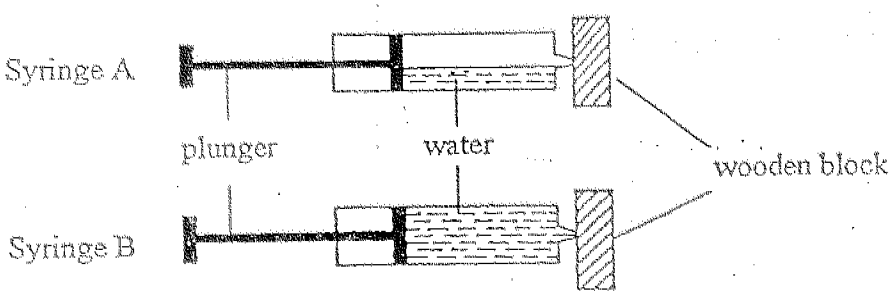
_____

_____

39. State which labelled item gains heat or loses heat in each set-up as shown below. (2m)

	Set-up	Gains heat	Loses heat
(a)		ice cubes	tap water
(b)		metal spoon	hot soup

40. Study the two syringes as shown below



(a) Which one of the above syringes can the plunger be pushed in? (1m)

_____

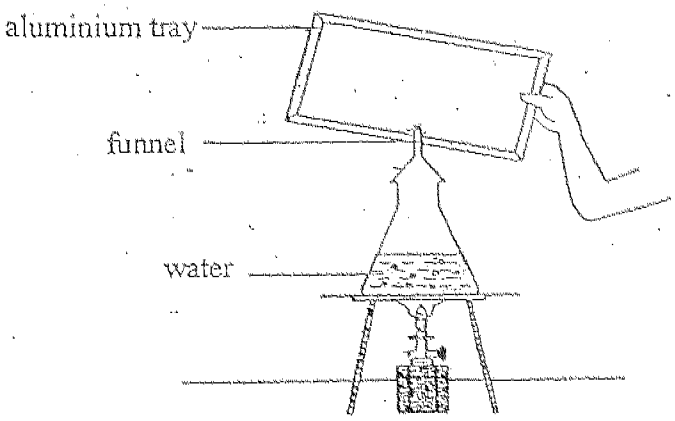
(b) Explain your answer in (a). (2m)

_____

_____

_____

41. Aziz boiled some water in a flask. He then held an aluminium tray close to the mouth of a funnel which was placed upside down on the flask as shown in the diagram below.



(a) What will be seen on the surface of the tray after a while? (1m)

_____

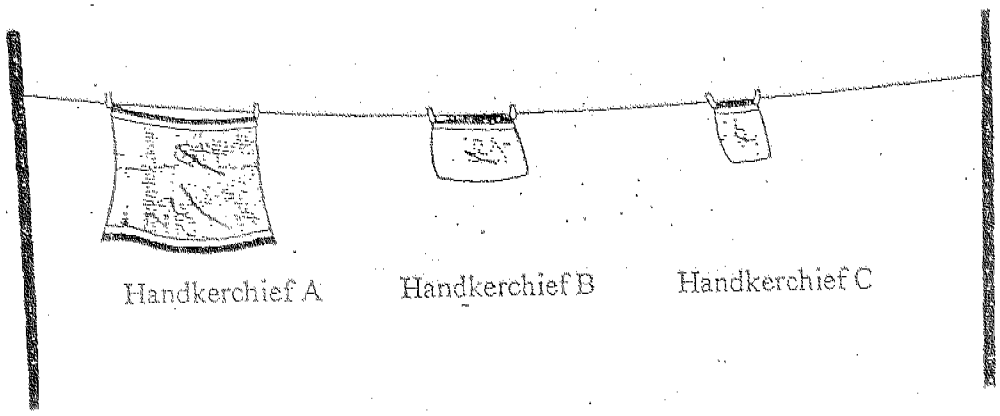
(b) Name the process that takes place when water changes into steam. (1m)

_____

(c) Name the process that takes place when the steam touches the tray. (1m)

_____

42. The diagram below shows how 3 similar handkerchiefs A, B and C were hung for drying.



Handkerchief A : fully open
Handkerchief B : folded twice
Handkerchief C : folded three times

(a) Arrange the handkerchiefs according to the degree of dryness after an hour, beginning from the driest to the least dry. (1m)

_____

(b) What happened to the water in the handkerchiefs? (1m)

_____

(c) What is the factor that affects the time taken for the handkerchiefs to dry? (1m)

_____

For Questions 43 to 46, please refer to Booklet K.

End of Paper

Set by : Mrs Wee Liang Tin
Vetted by : P4 Science Committee Teachers

CM

PEI CHUN PUBLIC SCHOOL
CONTINUAL ASSESSMENT 1, 2004
PRIMARY 4 SCIENCE.

1) 3
2) 4
3) 2
4) 3
5) 1
6) 2
7) 3
8) 3
9) 1
10) 4
11) 2
12) 3
13) 4
14) 4
15) 1
16) 1
17) 2
18) 2
19) 3
20) 1
21) 1
22) 3
23) 4
24) 4
25) 2
26) 1

27) 1 28) 4 29) 3 30) 2

31) a) Table Scissors Eraser
Chair Safety pin Boot

b) what they are made of.

32) Giraffe Eagle Bear
Caterpillar Frog Duck

33) a) They belong to the mammal group.

b) i) They have hair ii) They give birth to their young.

34) F D E
B C A

35) a) shape b) bark c) flower d) reproduce

36) a) T b) F c) F d) T

37) a) 200 b) 100 c) 300

b) The air in the container has been compressed.

38) a) She should make another hole in the can.

b) Air enters the can through the second hole and pushes the honey out of the can through the first hole.

39) a) ice cubes tap water
metal spoon hot soup

40) a) Syringe A

b) There is air in syringe A and since air can be compressed, plunger A can be pushed in because syringe B is filled with water and water cannot be compressed.

41) a) Water droplets

b) Evaporation

c) Condensation

42) a) A, B then C

b) It had been evaporated.

c) The factor is one of exposed surface.