

METHODIST GIRLS' SCHOOL (PRIMARY)  
CONTINUAL ASSESSMENT 1  
PRIMARY FOUR  
SCIENCE 2008

Name: \_\_\_\_\_ ( )

Marks: \_\_\_\_\_

Class: P 4

Date: \_\_\_\_\_

Parent's Signature: \_\_\_\_\_

Section A (30 marks)

Choose the most suitable answer and write its number in the brackets provided.

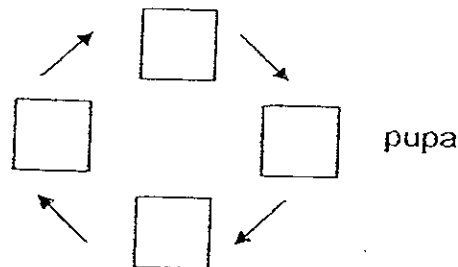
1. Which of these are life processes of most plants?

- A: Digestion
- B: Respiration
- C: Reproduction
- D: Photosynthesis

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

( )

2. The four-stage life cycle of a mealworm beetle is shown below:



What is the correct life cycle of the mealworm beetle if the following stages are listed as:

- A: pupa
- B: egg
- C: larva
- D: adult

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

( )

3. The function of the \_\_\_\_\_ is to pump blood around the body.

- (1) brain
- (2) lungs
- (3) heart
- (4) muscles

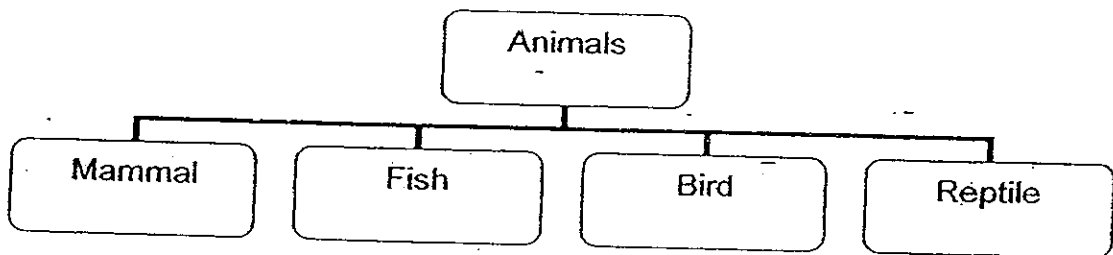
( )

4. When harmful bacteria enter our bodies, we may not get any symptoms of the disease. Our bodies fight bacteria through natural immunity or artificial immunity. Natural immunity refers to the ability of the body \_\_\_\_\_.

- (1) not to do anything
- (2) to fight the disease
- (3) to let the bacteria die
- (4) to let medicine fight the disease

( )

5. - Animals can be classified according to the classification chart below.



Which of the following groups of animals are classified correctly?

	Mammal	Fish	Bird	Reptile
(1)	shark	salmon	pigeon	crocodile
(2)	Dog	whale	sparrow	snake
(3)	Cat	dolphin	turkey	frog
(4)	horse	shark	owl	lizard

( )

6. Muscles can \_\_\_\_\_.

- A: relax ✓
- B: expand
- C: contract ✓

- (1) relax and expand only
- (2) relax and contract only
- (3) contract and expand only
- (4) relax, contract and expand

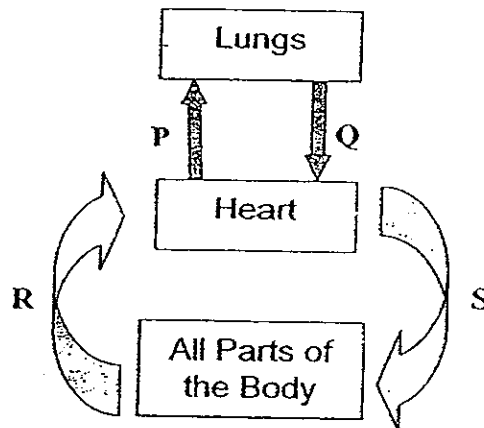
( )

7. When we breathe in, our diaphragm \_\_\_\_\_.

- (1) relaxes and moves up
- (2) moves up and contracts
- (3) moves down and relaxes
- (4) contracts and moves down

( )

8. The diagram below shows how blood flows in certain parts of the body.



Blood rich in oxygen is carried in the body at \_\_\_\_\_.

- (1) P and R
- (2) S and R
- (3) Q and S
- (4) P and S

( )

9. The headstones in a cemetery are made from different rocks.



Stone is chosen instead of wood or metal because stone \_\_\_\_\_

- (1) corrodes and wood rots
- (2) is hard and metal is soft
- (3) is heavy and wood is light
- (4) does not rot and metal corrodes

( )

10- Study the table below and identify object W, X, Y and Z.

Object	Matter	Definite shape	Definite volume	Can be compressed
W	x	x	x	x
X	✓	✓	✓	x
Y	✓	x	✓	x
Z	✓	x	x	✓

Object	W	X	Y	Z
(1)	Light	Sponge	Petrol	Nitrogen
(2)	Light	Petrol	Nitrogen	Sponge
(3)	Sound	Sponge	Nitrogen	Petrol
(4)	Sound	Petrol	Sponge	Nitrogen

( )

11. During a stage performance, several pieces of dry ice were exposed on the stage floor. The change of state that took place was from \_\_\_\_\_ to \_\_\_\_\_.
- (1) gas, solid
  - (2) solid, gas
  - (3) solid, liquid
  - (4) liquid, gas
- ( )
12. An electromagnet uses electricity to turn a piece of iron into a temporary magnet. The strength of an electromagnet can be increased by \_\_\_\_\_.
- (1) decreasing the flow of electricity
  - (2) replacing the piece of iron with copper
  - (3) hitting the electromagnet with a hammer
  - (4) increasing the number of turns of the coil
- ( )
13. The table below shows the classification of materials according to their magnetic or non-magnetic properties. Which is the correct classification?

	Copper	Steel	Aluminium	Nickel	Cobalt
(1)	Magnetic	Magnetic	Non-magnetic	Magnetic	- Non-magnetic
(2)	Non-magnetic	Magnetic	Magnetic	Non-magnetic	Magnetic
(3)	Non-magnetic	Magnetic	Non-magnetic	Magnetic	Magnetic
(4)	Magnetic	Magnetic	Magnetic	Non-magnetic	Non-magnetic

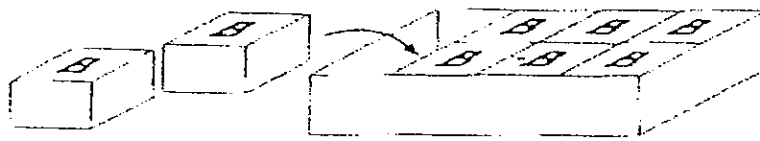
( )

14. 5g of copper was heated until it is completely melted. The mass of the melted copper is about \_\_\_\_\_.

- (1) 3g
- (2) 4g
- (3) 5g
- (4) 6g

( )

15. Mr Tan had eight bricks and a box as shown in the picture below. He could put six bricks easily and neatly into the box.



He tried to squeeze in 2 more bricks in the space left in the box. Which of the following reasons explain why he could not do it?

- A The bricks have mass.
- B The bricks have a fixed volume.
- C The bricks cannot be compressed.
- D The bricks do not have a definite shape.

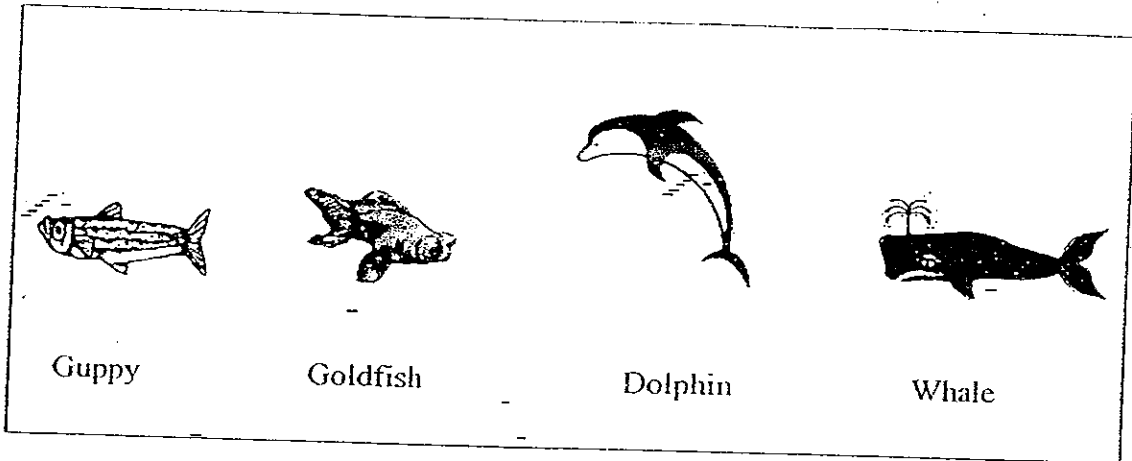
- (1) A and B only
- (2) B and C only
- (3) A, B and C only
- (4) A, B, C and D

( )

\*\*\*\*End of Section A. Please proceed to Section B\*\*\*\*

Section B (20 marks)  
Complete all the questions.

16. Mrs Tan brought some pictures to class one day. They are shown below.



- (a) Which of the creatures above does not reproduce in the same way as the others? (1m)

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- (b) Explain your answer to part (a). (1m)

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17. Sam wants to find out more about the time taken for different seeds to germinate. He has collected all the materials for his experiment as shown below.



Pot



Jug of water



Bag of soil



Types of seeds

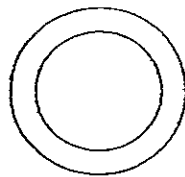
- (a) What is the variable in his test? (1m)

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- (b) Give a reason why Sam needs to keep some of the variables the same in his test? (1m)

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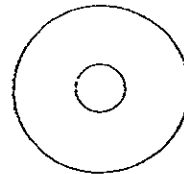
18. The diagram shows three blood vessels, A, B and C in the body. (2m)



A



B



C

- (a) The vein is represented by blood vessel \_\_\_\_\_

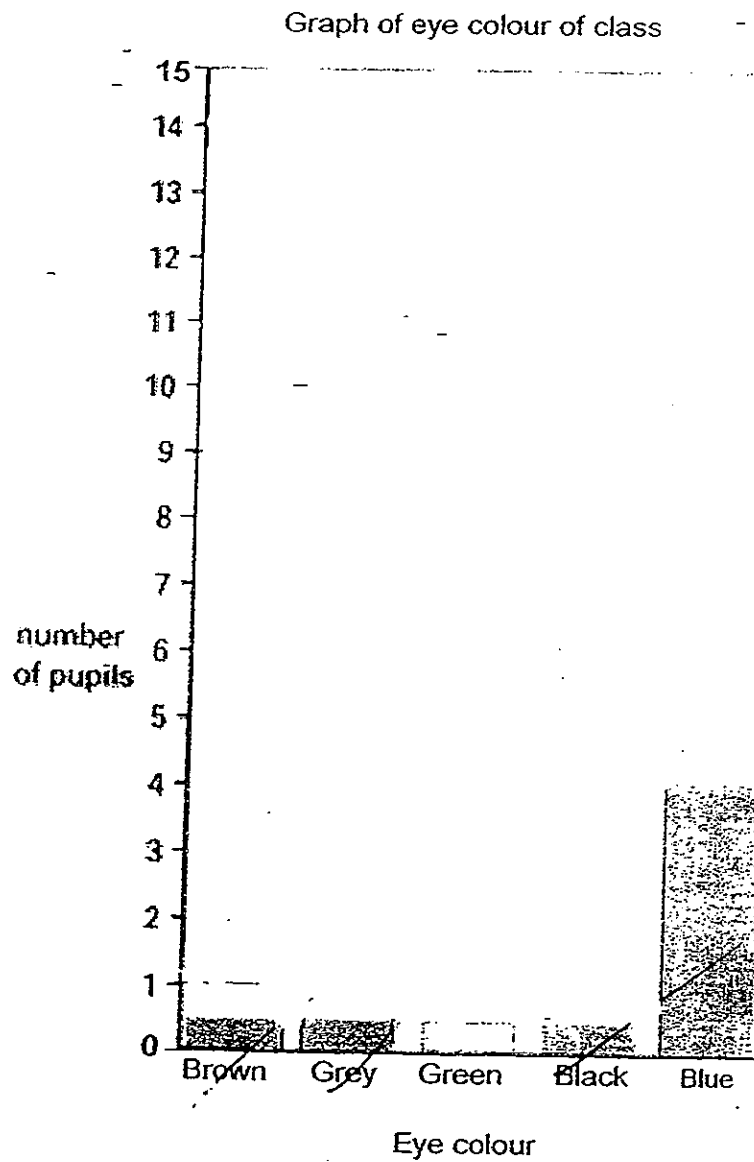
- (b) The capillary is represented by blood vessel \_\_\_\_\_



19. Lily, Beth and Jane are classmates in an International School. They are investigating one aspect of the topic on heredity by recording the eye colour of their classmates. The results are shown in the table below.

Eye Colour	Brown	Grey	Green	Black	Blue
No. of Pupils	14	1	0	9	4

- (a) In the space below, complete the bar chart to show the different eye colour in the class. (1m)



(b) Lily, Beth and Jane have different ideas about the results.



Jane

Grey is the most uncommon eye colour for our class

No one in the school has green eyes.



Lily



Beth

Half of our class has brown eyes

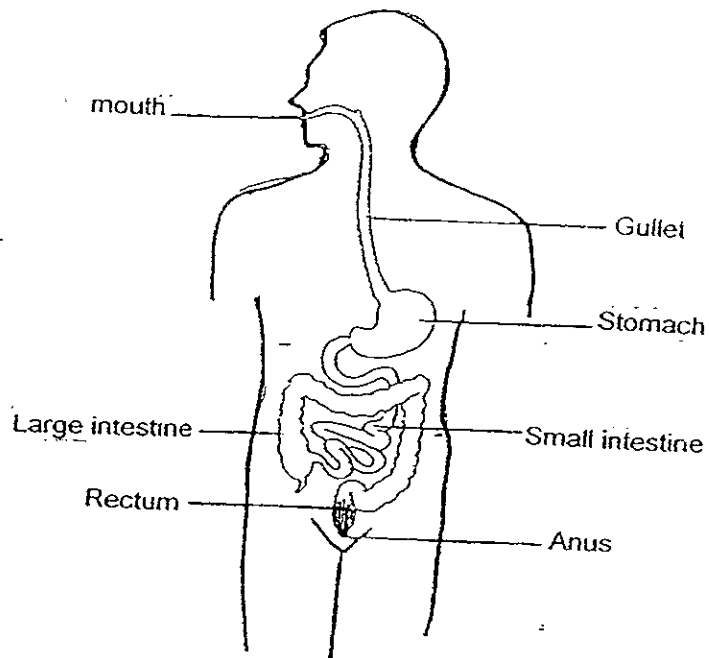
Whose idea is correct? Why? (2m)

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20. The diagram shows the organs of the digestive system.



(a) Why do we need to digest food? (1m)

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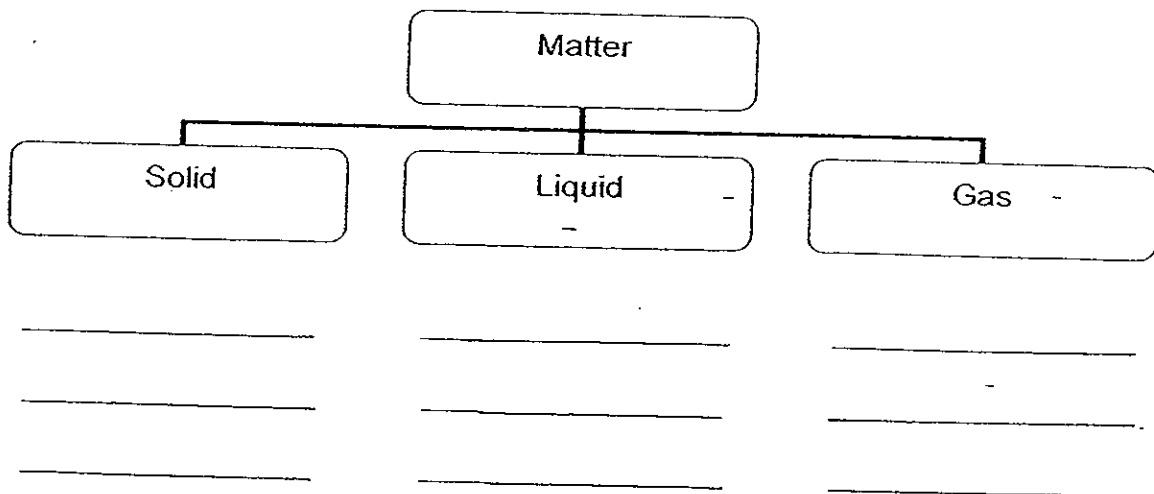
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(b) Digestion is completed in the \_\_\_\_\_ (1m)

21. Group the following matter in the table into SOLID, LIQUID and GAS in the classification chart below.

Milk	Jelly	Oxygen	Syrup
Carbon dioxide	Salt	Cooking Oil	Helium
			Cloth

(a)



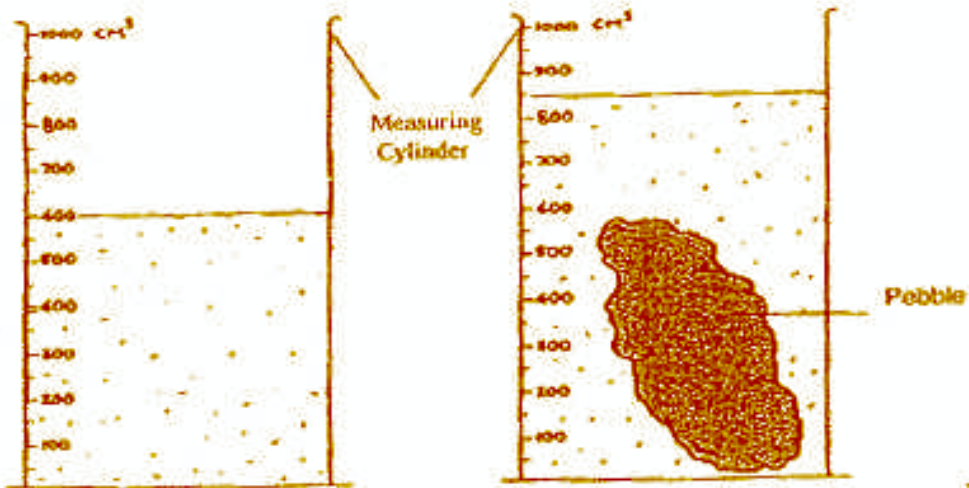
(2m)

(b) Which groups of matter will flow through a pipe? (1m)

\_\_\_\_\_

22.

Sue set up an experiment by using a measuring cylinder to find out the volume of the pebble as shown in the diagram below.



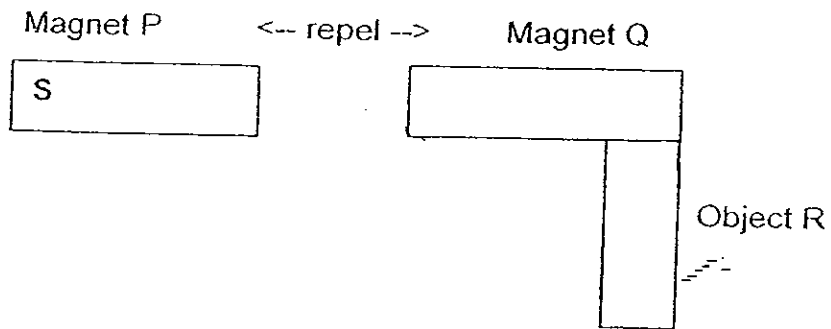
(a) What is the volume of the pebble? (1m)

\_\_\_\_\_

(b) Describe how you found the volume of the pebble. (2m)

Step 1	
Step 2	
Step 3	

23. Susan conducts an experiment with magnets. There are two magnets P and Q and an object R. She noticed that Magnet P repels Magnet Q as shown in the diagram below.



- (a) Label the poles on magnet Q. (1m)
- (b) Susan concludes that R is a magnet. Do you agree with her? Why? (1m)

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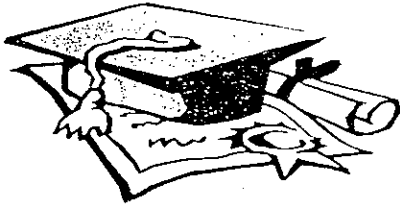
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- (c) What observation about the property of magnetic repulsion can be made from this experiment? (1m)

Magnets repel each other when \_\_\_\_\_ poles of the magnets are placed near to each other.

\*\*\*\*\*End of Paper\*\*\*\*\*  
*Please check your work carefully*



# ANSWER SHEET

EXAM PAPER 2008

SCHOOL : MGS PRIMARY SCHOOL  
SUBJECT : PRIMARY 4 SCIENCE

TERM : CA 1

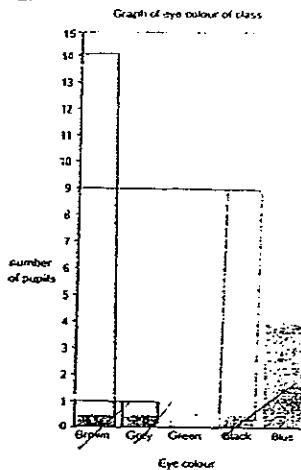
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	3	3	2	4	2	4	3	4	1	2	4	3	3	2

- 16) a) The gold fish.  
b) Gold fish eggs. The others give birth to their young alive.

- 17) a) The type of seeds.  
b) He needs to make sure that it is a fair test.

- 18) a) A      b) B

19) a)



- b) Beth. There are 28 pupils in their class. The pupils who have brown eyes is 14 which is half of 28. Not enough data to conclude statement in Lily case, Green is the most uncommon eye colour in Jane's case.

20)a) Digestion breaks food down into simple substances so that our body can absorb it.

b) small intestine

21)a) Solid: Jelly, Salt, Cloth

Liquid: Milk, Syrup, Cooking Oil

Gas: Oxygen, Carbon dioxide, Helium

b) A liquid and gas will flow through a pipe.

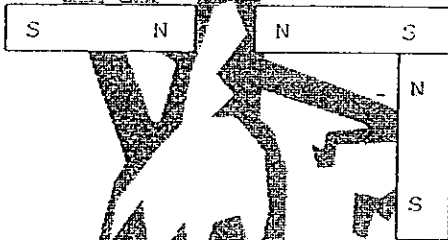
22)a) The volume of the pebble is  $250\text{cm}^3$

b) 1) Find the volume of the water ( $600\text{cm}^3$ )

2) Read the volume of the pebble and the stone ( $850\text{cm}^3$ )

3) Take the 2 readings and subtract. ( $850\text{cm} - 600\text{cm} = 250\text{cm}^3$ )

23)a)



b) No. It must repel the magnet, because magnetic objects like iron can attract a magnet but it is not a magnet.

c) like