JUNIOR LYCEUM ANNUAL EXAMINATIONS 2004

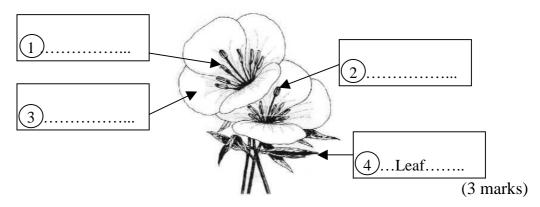
Educational Assessment Unit – Education Division

FORM	1 INTEG	GRATED SCIENCE	Time	1 hr 30 min
Name	AN	SWER ALL QUEST		s
	Look at the list of things in box below.	the Living t	chings I	Non living things
	Shark, train, car, water, ov tree, sun.	vl,		
	Sort the living things and the non-living things into two columns.	ne		
				(7 marks)
b)	Animals are living things. Volume boxes.	Which three things do	all animals do?	Tick (✓) three
	lay eggs	grow	:	fly
	walk	swim	fee	ed
	Get rid of waste	see	ta	dk (3 marks)
c)	Use this key to identify the spaces below.	insects shown in the pi	ictures. Write th	ne names in the
1 I	Does it have wings?	if yes go to 2 if no go to 4		
2 I	Does it have two wings?	if yes it is a FLY if no go to 3	(a)	(b)
3 I	Does it have big wings?	if yes it is a MOTH if no it is a FLYING	(c)	(d)
4 I	Does it have three tails?	if yes it is a SILVER if no it is a SPRING		(e)
(a)	(b)		(c)	
(d)	(e)			(5 marks)

Sports	Students' preference	Total
Football	///////	
Netball	//	
Volleyball	/////	
Basketball	////	
Swimming	//////	
	r of preferences for each sport on each eresult using one column for each	(5 ma
		(5 ma
	neasuring instrument. Fill in the sp	paces below:
his question is about a m		

c) These are two measuring instruments. What does the thermometer measure? (i) 100^{0} 90^{0} What does the measuring cylinder measure? (ii) 50^{0} 40^{0} 30^{0} (iii) What is the reading on the thermometer? $400\,\mathrm{ml}$ 10^{0} 300 200 What is the reading on the measuring cylinder? (iv) (4 marks) 3) a) This question is about the states of matter. What **changes** are the arrows showing in the diagrams? Write your answers on the lines provided. (4 marks) b) Place the correct ending for each sentence below in the space provided: (can slide around each other), (can move freely), (cannot move from place to place). (i) The particles in iron (ii) The particles in oxygen _____ (iii) The particles in water _____ (3 marks)

- 4) This question is about **plants**.
 - a) Write in the boxes the correct name for each part of the plant. One has been done for you.



b) The table below describes what these four parts of the plant do.
Write the correct **number** of the part of the plant above next to what the part does.
One has been done for you.

Number	What the part of the plant does
4	makes food using sunlight
0	produces pollen
0	receives pollen
0	attracts insects for pollination

(3 marks)

5) a) Divide these objects into **elements** and **compounds** and write them in the table below:

oxygen, water, chlorine, gold, sodium chloride, carbon dioxide.

Elements	Compounds

(6 marks)

b)	Give the	names	and	symbols	of
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	Name	Symbol	Name	Symbol
(i) two metals				
(ii) two non-metals				

					(8 marks)
c)	Tick (✓) the s	tatements that are	e true about met a	als.	
	(i) They are	shiny			
	(ii) They are	transparent			
	(iii) They are	usually insulator	rs		
	(iv) Most of t	them are solids at	room temperatu	re	
	(v) They cor	nduct electricity			
					(3 marks)
6) a)	Write the mai	n form of energy	in each picture b	pelow:	
	No.				RICE
					(5 marks)
b)	In each senten	ce below, fill in	the spaces with the	ne correct form of	energy.
	(i) When the	light bulb is swit	ched on, electrica	al energy is change	ed into
		energy.			
	(ii) When the	electric kettle is	working	energy is ch	anged into
		energy.			

	(iii) When the gas cooker is used,	energy is changed into
	energy.	
	(iv) When the radio is on,	energy is changed into
	energy.	(7 marks)
c)	Most of the world's electrical energy com	es from the following 4 sources:
	coal, moving water for hydroelectric po	wer, oil and gas
	(i) Which three of them are fossil fuels?	,
	(ii) Which one does not cause harm to the	e environment?
	(iii) Which one is renewable?	
		(5 marks)
	hn ground some coffee beans into little pied ured some boiling water over them to make	<u>-</u>
	Coffee	jug of coffee
a)	Complete the sentences below. For each swords. insoluble, soluble, solution, solvent.	sentence, choose one of the following
	,	0.1
	(i) The liquid in the jug is brown because	e parts of the coffee beans are
	in water.	
	(ii) Some bits of coffee beans are left on	the filter because they are
	in water.	
	(iii) The brown liquid which drops from the	ne filter is a of
	coffee	(3 marks)
	~~11~~	(2 1114113)

7)

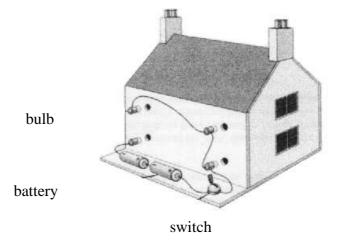
					(2 marks)
	ed making coffee in water and ground up			vater. He used	d the same a
(i) The	liquid in the jug wa	s a lighter	colour. Why wa	s this?	
					(2 mark)
('') II	1 1:1 66	1171	.1 1 6 .1	. 1 10 77.	
box.	v much solid coffee.	could John	i get back from ti	nis nquia? Ti	ck (v) the t
mor	e than before				
	e than before same as before				
the	same as before				
the s	same as before than before				
the	same as before than before				
the s	same as before than before				(1 mark)
less none Peter di insulato	same as before than before e d an experiment to sors. He recorded his	results in	a table. Complete	U	luctors or
less none Peter di insulato	same as before than before e id an experiment to	results in	a table. Complete	U	luctors or
less none Peter di insulato	same as before than before e d an experiment to sors. He recorded his	results in	a table. Complete	U	luctors or
less none Peter di insulato	same as before than before e d an experiment to sors. He recorded his	results in	a table. Complete the correct box.	the table of 1	luctors or
less none Peter di insulato	same as before than before d an experiment to sors. He recorded his e found by putting a	results in	a table. Complete the correct box.	the table of 1	luctors or

8)

(4 marks)

Aluminium foil

b) Alice connects four light bulbs for her model house as shown. She puts the bulbs into the holes in the back wall.



(i)	When Alice turns the switch on, the bulbs None of the bulbs is broken. Why do the	• 1	s are new.
		(2	marks)
(ii)	Alice makes the circuit work. When she the bright. What must Alice add to the circuit		are not very
		(2	marks)
(iii)	The four bulbs in the circuit are the same correct box.	Which statement is correct?	Tick (\checkmark) the
	Each bulb has the same brightness.		
	Each bulb has a different brightness.		
	The bulbs at the top are brighter.		
	The bulbs at the bottom are brighter.	(2	marks)

(iv) Show how Alice made **the circuit work** by drawing a diagram of the circuit in the space provided, using **symbols**

(4 marks)