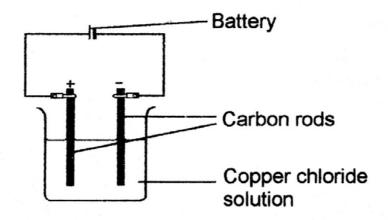
## **JUNIOR LYCEUMS ANNUAL EXAMINATIONS 2002**

## **Educational Assessment Unit – Education Division**

FORM 2	INTEGRATED SCI	ENCE	Time 1hr 30 min
Name			Class
	ANSWER ALI	L QUESTIONS	
,	show stages in the <b>formation</b> of in the correct order.	ı of soil.	191
Α	В	С	D
,	e letters of the drawings in the <b>B</b> . Describe what is happen		4 marks
· -	t swallows. Greenflies eat ro	se bushes. Swallow	2 marks s eat the ladybirds.
Ladybirds eat gree  a) Use the above	information to complete the	food chain below:	
,		ood cham below.	
rose bush $\longrightarrow$	$\longrightarrow$	$\longrightarrow$	→ 4 marks
b) Which living t	thing in the above food chain	is making the food	
, -	he swallow is both <b>a predato</b>		1 mark
i) <b>predator</b>			1 mark
ii) <b>prey</b>			1 mark
	ner day the greenfly populations how this would <b>affect the p</b>		ickly.
			2 marks

3)	Wl	nen v	ve hear	s a metal. t magnesium, it burns with a brigh der is left at the end. This is called		
			-	ys that we can tell a <b>new</b> substance		
	<b>h</b> )		Ia m	agnesium en element?		2 marks
	b)	i)	15 111	agnesium an element?		1 mark
		ii)	Expl	lain your answer.		 1 mark
	c)	i)	Is m	agnesium oxide an element?		
		ii)		ain your answer?		1 mark
						 1 mark
4)	Th	e tab	le belo	ow shows the <b>pH</b> value of five soil	samples.	
				Soil Sample	pH of soil	7
				A	6.0	
				B	7.5	
				C D	7.0 4.5	
				E	8.0	-
	٥)	Whi	ah sai			_
				l sample is neutral?		1 mark
	U)			grow better in <b>acidic</b> soil.  of the soil samples should heathers	grow well?	
						2 marks
	c)			grow better in <b>alkaline</b> soil. oil samples should cabbages grow	well?	
				on sumpres should encouges grow		 2 marks
	d)			<b>alkali.</b> It is sometimes added to a hy this is this done.	acidic soils.	

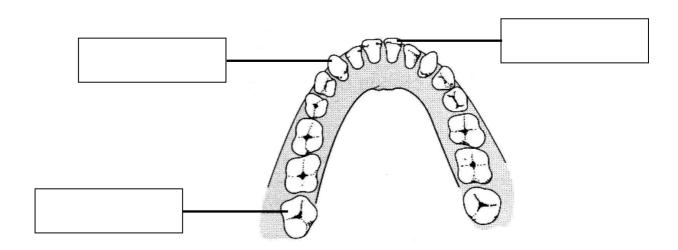
5) Paul wanted to **break a compound**. The diagram shows the experiment he set up.



a)	What is seen at each rod?	
b)	Which are the <b>two elements</b> that make up the substance in the beaker?	2 marks
c)	Write the <b>symbols</b> of the elements in b).	2 marks
d)	Write a <b>word equation</b> to show what is happening in this experiment.	2 marks
e)	i) Name the compound, formed when <b>iron</b> is left in <b>damp air</b> .	3 marks
	ii) Which <b>elements</b> make up this compound?	1 mark
		 2 marks

		_			_		_
6١	The diagram	shows 3	different	types	of teeth	in v	our mouth
$v_j$	The diagram	SHOWS	unitatin	types u		111 y	oui inouni.

a) Label these types of teeth.



3 marks

b) Which type of teeth:	
i) bite and tear the food?	
	1 mark
ii) <b>chew</b> the food?	
	1 mark
iii) scrape and bite food?	
	1 mark
c) Which type of tooth has a <b>pointed edge</b> ?	
	1 mark
d) Plaque can form on our teeth.	
i) What is <b>plaque</b> ?	
	2 marks
ii) Why is it <b>important to remove plaque</b> from teeth?	

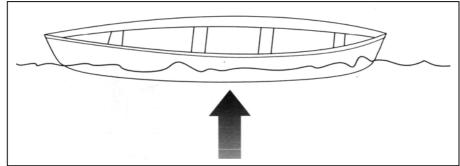
iii) Name 2 things you can do to keep your teeth healthy?

2 marks

1 mark

				2 1
ii) Whic	h food substances	give a <b>supply of ene</b>	rgy?	2 1
				2 1
ii) Name	e a food, which is a	rich source of fat?		
				1
	ested some foods to hows her results.	o find out which food	d substances they con	ntain.
	lodine	Albustix	Clinistix	Filter paper
Food	Iouine			
Food Pea	No change	Gives a green colour	No change	Leaves a greasy stain
		•	No change  No change	
Pea	No change Gives a black	colour	-	stain
Pea Potato Cake Milk	No change  Gives a black colour  Gives a black colour  No change	No change  No change  Gives a green colour	No change  Gives a purple colour  No change	stain No change No change Leaves a greasy stain
Pea Potato Cake	No change  Gives a black colour  Gives a black colour	No change  No change  Gives a green	No change Gives a purple colour	stain No change No change Leaves a greasy
Pea Potato Cake Milk Sweet	No change  Gives a black colour  Gives a black colour  No change  No change	colour No change No change Gives a green colour No change	No change  Gives a purple colour  No change  Gives a purple	stain No change No change Leaves a greasy stain No change
Pea Potato Cake Milk Sweet	No change  Gives a black colour  Gives a black colour  No change  No change	colour No change No change Gives a green colour No change	No change  Gives a purple colour  No change  Gives a purple colour  ses are present in these	stain No change No change Leaves a greasy stain No change
Pea Potato Cake Milk Sweet  From the	No change  Gives a black colour  Gives a black colour  No change  No change	colour No change No change Gives a green colour No change hich food substance	No change  Gives a purple colour  No change  Gives a purple colour  ses are present in these	stain No change No change Leaves a greasy stain No change
Pea Potato Cake Milk Sweet  From the	No change  Gives a black colour  Gives a black colour  No change  No change  ne above results w	colour No change No change Gives a green colour No change hich food substance	No change  Gives a purple colour  No change  Gives a purple colour  ses are present in these	stain No change No change Leaves a greasy stain No change

8) The diagram shows a boat **floating** on water. The arrow shows **one** of the **forces** that acts on the boat.



a) Choose words from the list to complete the sentence that describes the force shown in the diagram.

	d	lagram. <b>boat</b>	downward	Earth	upward	water	
	Th	e arrow shows the		_ push of the	on th		 3 marks
b)	Dr	aw an arrow on the	e diagram to show	v <b>another force</b> (	that acts on the boa	t when it is <b>fl</b> o	o <b>ating</b> . 1 mark
c)	Tw	vo people climb int	to the boat.				
	i)	How does this aff	ect the size of the	e downward for	ce?		
	ii)	How does this aft	fect the size of th	e upward force?	,		1 mark
							1 mark

9) The table below shows the **properties** of 4 objects (A, B, C, D):

object	hard or soft	rough or smooth	dull or shiny	flexible or stiff
A	hard	smooth	shiny	flexible
В	soft	rough	dull	stiff
С	hard	smooth	shiny	stiff
D	soft	rough	dull	flexible

a) Which of these objects, A, B, C, D, could be:

i)	a bath sponge?	
••	-	1 mark
ii)	a plastic ruler? _	
iii)	a new iron nail?	1 mark
		1 mark

b) Fill in the table below to describe the properties of a cement brick?

object	hard or soft	rough or smooth	dull or shiny	flexible or stiff
Cement brick				

Page 6 2 marks

Property		Solid	Lic	quid	Gas
Particles are very near each ot	her.				
Particles are not arranged in a	pattern.				
Particles move far away very	quickly.				
Particles can be easily pressed	l in a smaller space.				
Particles move.					
<ul><li>e) A metal rod is heated.</li><li>i) Tick (✓) boxes to say v</li></ul>	what happened to the	particles in th	e <b>met</b> a	ıl rod as	-
,	what happened to the	particles in th			it gets hott
,					it gets hott
i) Tick (✓) boxes to say v					it gets hote
i) Tick (✓) boxes to say v Size of particles					it gets hott
i) Tick (✓) boxes to say v  Size of particles  Distance between particles					it gets hott

10a) Write down the names of a solid, a liquid, and a gas.

1 mark

11)	Three things	are needed	to have a	fire
11	1 111 66 (11111128)	are necucu	io nave a	ı III C.

a)	Draw	the 'fir	e triangl	e' to	show	these 3	things

3 marks

- b) If a chip pan full of oil catches fire then you should:
  - 1. Turn off the gas cooker.
  - 2. Cover the pan with a damp cloth.

Explain why these 2 actions help to put out the chip pan fire.

2 marks

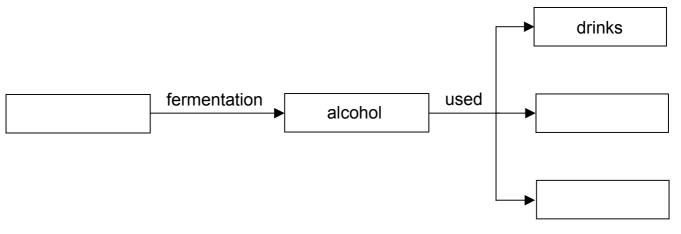
12) Read the following passage, then answer the questions that follow:

Fermentation is used to change glucose into alcohol. Drinks like wine and beer are made by fermentation. However, alcohol is not only used in drinks. It is also a new fuel that is used instead of petrol in Brazil. It is also a very good solvent.

a) What is this passage talking about?

1 mark

b) Complete the flow diagram to present the information in the passage.



3 marks