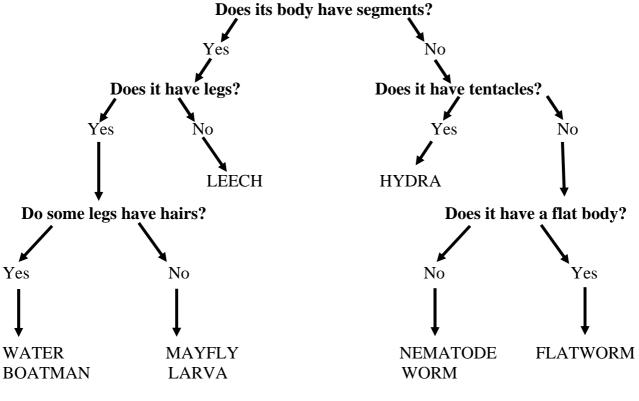
## **JUNIOR LYCEUM ANNUAL EXAMINATIONS 2009**

FORN	И 1	INTEG	RATED SC	IENCE	TIME:	1 hr 30 min
Name:					Class:	
Answe	er all the following	questions				
	fety in the laborator	• •		w when doin	g experiments	
						(2 marks)
	ass 1.03 are investig	gating eye col	our. Lisa and	l Jane record	the eye colou	r of
ev	ass 1.03 are investigeryone in the class. ere are their results.  Eye colour  Number of pupils	gating eye col  brown  8	our. Lisa and blue 10	Jane record grey	Green 4	er of
ev He	eryone in the class. ere are their results.  Eye colour  Number of	brown 8	blue 10	<b>grey</b> 0	Green 4	or of
ev He	eryone in the class. ere are their results.  Eye colour  Number of pupils	brown 8	blue 10	<b>grey</b> 0	Green 4	or of
ev He	eryone in the class. ere are their results.  Eye colour  Number of pupils	brown 8	blue 10	<b>grey</b> 0	Green 4	er of

i.	What TWO measuring instruments are needed?	THOUT
		(2 marks)
ii.	Name TWO other apparatus Daniel would need for this experiment?	
		(2 marks)
iii	Daniel measured the temperature of boiling water.	
	At what temperature does water boil?	(2 marks)
iv	. Draw the apparatus that Daniel <b>set up</b> to do this experiment. You have <b>to show and label</b> FIVE apparatus.	
		(5 marks)
. Liv	ing things do what non-living things cannot do on their own.	
	Underline FOUR living things.	
a. U	fish sun water soil grass cheese cow tree rocks	s sea
a. U	fish sun water soil grass cheese cow tree rocks	
a. U	fish sun water soil grass cheese cow tree rocks	s sea (4 marks)
a. U	fish sun water soil grass cheese cow tree rocks  Give THREE differences between living and non-living things.	
a. U		

(3 marks)

a. Use this key to work out what the animals are.



Find the names of the following animals:

a is a \_\_\_\_\_\_ d is a \_\_\_\_\_\_

b is a \_\_\_\_\_ e is a \_\_\_\_\_

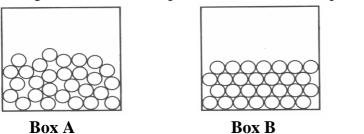
c is a \_\_\_\_\_ (5 marks)

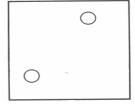
b. These animals do not have a backbone or other bones in their body. Therefore they are all called \_\_\_\_\_\_. (1 mark)

Animal	Vertebrate group	One detail belonging to this vertebrate group	Another example from this vertebrate group
	mammal	live birth	human being

(6 marks)

7. The diagram below shows particles in a solid, a liquid and a gas.





Box C

Which box shows the particles in:

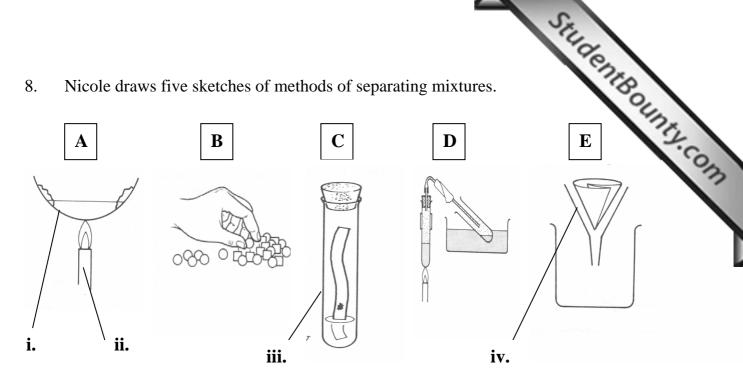
a solid? a liquid? a gas? \_

(3 marks)

Choose words from the following list to complete the sentences below. ii.

boiling	condensing	g distil	ling	evaporating		
filtering freezing melting						
The change from	The change from water to steam is called					
The change from	The change from ice to water is called					
The change from liquid to solid is called						
The change from	steam to liquid	is called				

(4 marks)



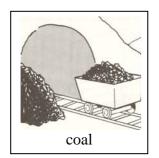
a. Four pieces of apparatus, i, ii, iii and iv, are labelled on the diagrams. Write down their names.

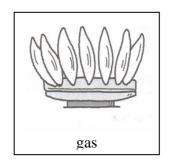
i	ii
iii	iv
	(4marks

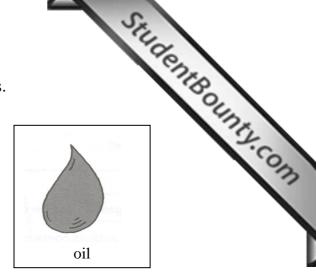
b. Which method could be used for each of the following separations? Give a reason for your answer. Fill in the table to answer this question. The first one has been done for you as an example:

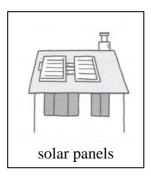
Separating	Diagram	Name of	Reason for using this method
		Method	
i. Separating peas and beans	В	By hand	They are solids which do not mix and cannot be separated by other methods
ii. Separating sand and salt solution to get the SAND			
iii.Getting WATER from a salt solution:			
iv. Getting SALT from a salt solution			

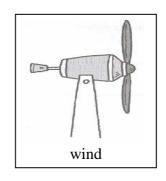
(9 marks)

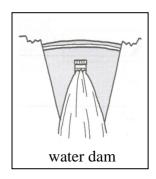












a. Which three of these energy sources are fossil fuels?

(3 marks)

b. The other three energy sources are different. Why are they different?

\_\_\_\_\_

(2 marks)

c. Complete these sentences describing the energy transfer:

i. The wind turbine transfers \_\_\_\_\_energy from the wind to \_\_\_\_energy.

ii. The solar panels transfer \_\_\_\_\_\_ energy from the sun to energy as \_\_\_\_\_.

(4 marks)

d.	Do you	think that	the Gover	rnments sho	ould encou	rage

(i) more burning of fossil fuels, OR (ii) more use of renewable energy sour

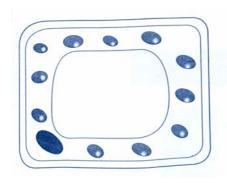
Student Bounts, com Write a letter to your member of Parliament saying what you think the Government should do.

2 002 000	
I think we should use more	

to generate electricity because _	
•	


(4 marks)

10. The diagram shows a plant cell.



Label the diagram. a.

(6 marks)

What parts of a cell are found in both animal and plant cells? Tick THREE correct b. boxes?

cell membrane	cell wall	Chloroplast	cytoplasm	nucleus	Vacuole

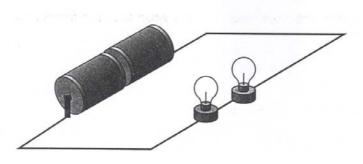
(3 marks)

- 11. Emily is setting up an electrical circuit. She has wires, switches, bulbs and c (batteries). She does not use them all.
  - a. Draw the symbols of the following:

Components	Symbols
bulb	
cell (battery)	
open switch	

(3 marks)

b. Look at the picture of Emily's circuit.



Use the symbols to draw a diagram of Emily's circuit.

(3 marks)

c. The bulbs in Emily's circuit are very bright. Emily removes one cell (battery) from the circuit. Complete the sentence below to describe the effect on the bulbs of removing a cell.

The bulbs will be \_\_\_\_\_

(1 mark)

d. Complete this sentence:

The circuit above has the bulbs connected in \_\_\_\_\_

(1 mark)

The bulbs in this circuit are connected in (1 max)  Emily adds some different materials to her circuit. When some materials are placed in the circuit, the bulbs light up. Some materials do not allow the bulbs to light Finish the table by ticking (✓) the results of her experiment.    Material   Bulbs light up   Bulbs do not light up   Plastic   Copper   Rubber   Rubber	be connected?
The bulbs in this circuit are connected in	
The bulbs in this circuit are connected in	
The bulbs in this circuit are connected in	
The bulbs in this circuit are connected in	
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Plastic Copper Rubber  (3 mar  Fill in the blanks:  Materials which allow electricity to flow through the circuit are cal Materials which do not allow electricity to flow through	light un
Copper Rubber  (3 mar  Fill in the blanks:  Materials which allow electricity to flow through the circuit are cal  Materials which do not allow electricity to flow through	
Rubber  (3 mar  Fill in the blanks:  Materials which allow electricity to flow through the circuit are cal  Materials which do not allow electricity to flow through	
(3 mar  Fill in the blanks:  Materials which allow electricity to flow through the circuit are cal  Materials which do not allow electricity to flow through	
Fill in the blanks:  Materials which allow electricity to flow through the circuit are cal  Materials which do not allow electricity to flow through	
Materials which allow electricity to flow through the circuit are cal  Materials which do not allow electricity to flow through	(2 mort
Materials which do not allow electricity to flow throu	(3 marl
	(3 marl
the circuit are called	(3 mark
the circuit are caned	circuit are call
	circuit are call
Rubber  Fill in the blanks:  Materials which allow electricity to flow through the common description.  Materials which do not allow electricity.	

- END OF PAPER. PLEASE CHECK YOUR WORK AGAIN -