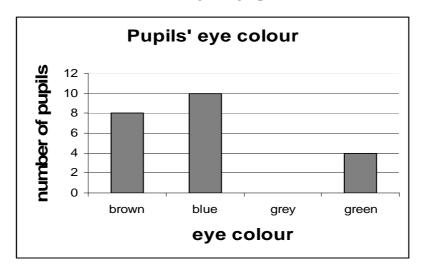
SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

	SECON	DARY SCHOOL ANNUAL EXAMINA Directorate for Quality and Standards in Educa Educational Assessment Unit	
FO	RM 1	INTEGRATED SCIENCE	TIME: 1 hr 30 min
Naı	ne:		Class:
An	swer all the follo	wing questions	
1.	•	oratory is very important. O safety rules you have to follow when doing	g experiments.

Class 1.03 are investigating eye colour. Lisa and Jane recorded the eye colour of everyone in the class.

Their results are shown on the following bar graph.



a. Use the bar graph to fill in the following table.

Eye colour	Brown	blue	grey	Green
Number of pupils				

(2 marks)

- b. What is the most common eye colour? (1 mark)
- c. What is the least common eye colour? (1mark)
- d. What is the total number of pupils in class? (2 marks)

3. Look at these drawings.



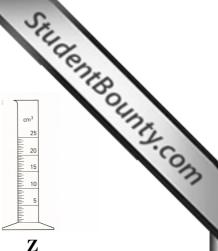
W



X



Y



 \mathbf{Z}

a. Write the names of these four instruments.

$$Y = \underline{\hspace{1cm}} Z = \underline{\hspace{1cm}}$$

$$Z =$$
 (4 marks)

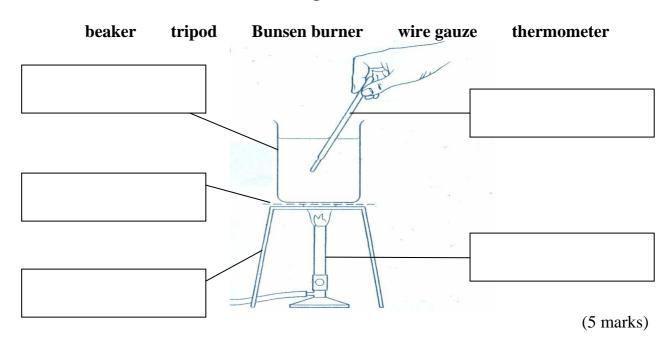
b. Which measuring instrument is used to measure the volume of a liquid?

(1mark)

c. Which measuring instrument might have a scale in grams?

(1 mark)

- d. Daniel heats some water until it starts to boil. Then he measures the temperature of the boiling water. At what temperature does water boil? _____ (2 marks)
- e. This is the apparatus that he used. Use the words below to label the diagram.

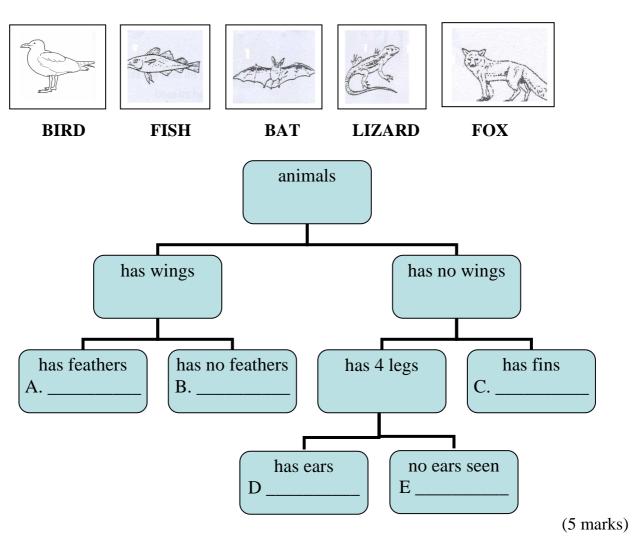


Student Bounts, com a. Underline FOUR living things. starfish cheese sun water soil grass tree cow

b. Give	THREE	differences	between	living	and	non-living	things.
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(3 marks)

5. a. Use the key to identify the animals.

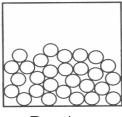


These animals have a backbone or other bones in their body. Therefore they are all (1 mark) called _____

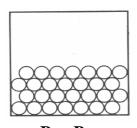
Γhe following table is first one has been don		ite groups. Fill in the mis n example.	sing information	OHNEY.COM
Animal	Vertebrate group	One detail belonging to this vertebrate group	Another example from this vertebrate group	Y.COM
	mammal	live birth	human being	

(6 marks)

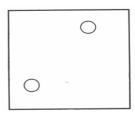
7. The diagram below shows particles in a solid, a liquid and a gas.



Box A



Box B



Box C

Which box shows the particles in:

a solid? _____

a liquid?

a gas?

(3 marks)

Are the following SOLIDS, LIQUIDS or GASES?

oxygen _____

tea _____

wood _____

carbon dioxide _____

air

ice _____

(6 marks)

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

iii.

i	ii
iii	iv (4marks)

iv.

b. Which method could be used for each of the following separations? Fill in the table to answer this question.

The first one has been done for you as an example:

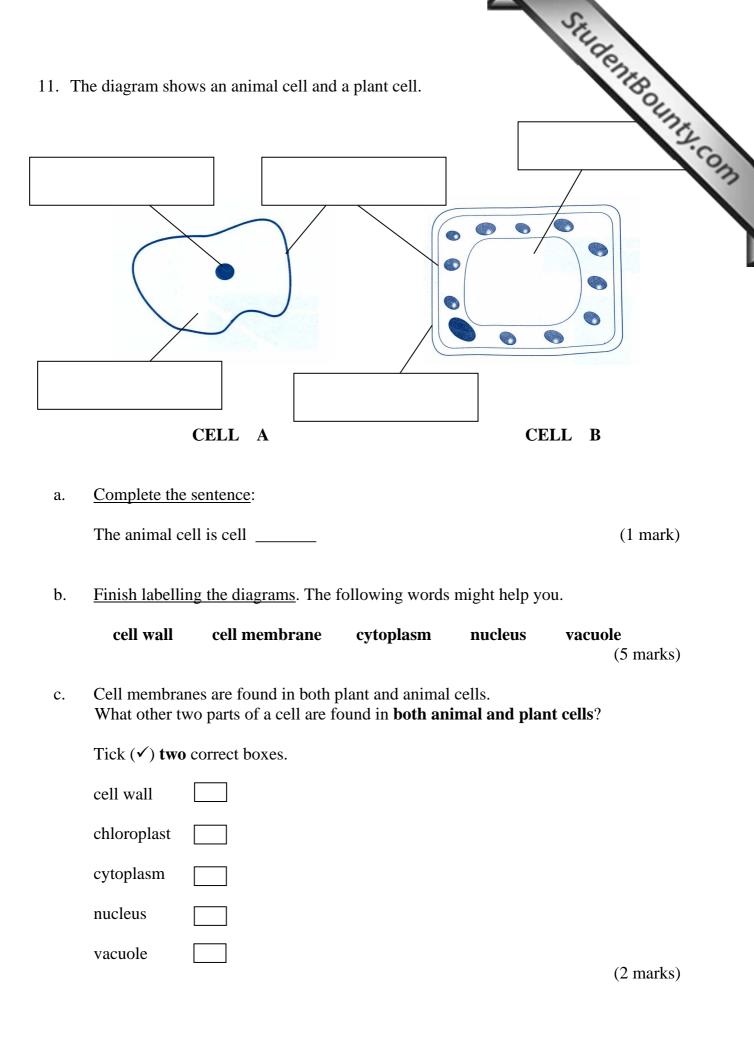
i.

ii.

Separating	Diagram	Name of Method	
i. Separating peas and beans	В	By hand	
ii. Separating sand and salt solution to get the SAND			(1, 2 marks)
iii.Getting WATER from a salt solution:			(1, 2 marks)
iv. Getting SALT from a salt solution			(1, 2 marks)

Student Bounty.com 9. Look at the following six different energy sources. oil coal gas solar panels wind water dam 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) Complete these energy changes describing the energy transfers. 10. Electrical energy

(5 marks)

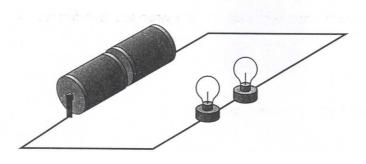


- 12. Emily is setting up an electrical circuit. She has wires, switches, bulbs and c (batteries). She does not use them all.
 - a. Draw the symbols of the following:

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)

e.	What happens to the other	bulb if one bulb is remo	oved?	ABOUNT
				(1 ma.
f.	Look again at Emily's circ Draw this circuit.	cuit. In what other way	could the bulbs be connec	eted?
			((3 marks)
	The bulbs in this circuit ar	re connected in		(1 mark)
g.	Emily adds some different in the circuit, the bulbs lig	tht up. Some materials	do not allow the bulbs to	
	Finish the table by ticking	(✓) the results of her e	experiment.	
	Material	Bulbs light up	Bulbs do not light up]
	Plastic			
	Copper			
	Rubber			
Un	derline the correct answer:			(3 marks)
i. I	Materials which allow	electricity to flow t	through the circuit ar	e called
((conductors / insulators) .			

h.

- ii. Materials which do not allow electricity to flow through the circuit are called (conductors / insulators).

(2 marks)

- END OF PAPER. PLEASE CHECK YOUR WORK AGAIN -