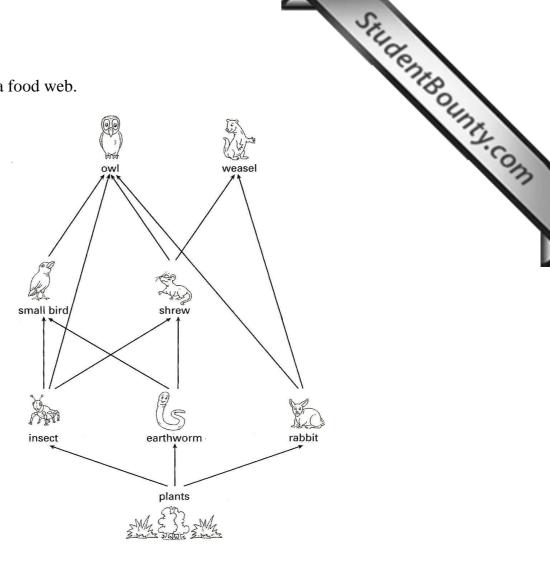
## SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

	INTEGRATED SCIENCE	ATIONS 2009 ation TIME: 1h 30min
Name:		Class:
	ANSWER ALL QUESTIONS	
<ol> <li>Different organisms liv</li> <li>Draw a line from th</li> </ol>	ve in different habitats. ne organism to its habitat.	
crab	freshwater	
earthworm	desert	
seagull	seashore	
frog	soil	
lizard	cliffs	5 marks
b) The following table	shows an animal and some information	n about it.
	Polar Bear – lives on the cold Arctic covered in thick white thick fat layer stored b short thick neck and le small ear lobes	c ice fur elow the skin



Use the information in the food web to help you answer ALL questions.

a) What two things do shrews eat?

		2 marks
b)	Name the producer.	
		1 mark
c)	The owl is a predator.	
,	i) Name one other predator.	
	zy rymno one omer producer.	1 mark
	ii) Name an animal that is both a prey and a predator	
	• • • •	1 mark
	iii) Explain what helps the owl to be a good predator.	
		2 marks
d)	If the shrews are all killed, what effect would this have on the rabb	its and the owl?
		2 marks

2)	Chaisis	~:	~~~~~	d:ff	1:: 4-	a - a - a	40040	41	T T
3	Chris is	given	seven	amereni	nquias	and	tests	meir	pн.

Liquid	А	В	С	D	Е	F	G
pH of liquid	4.0	8.5	3.5	2.0	13.0	7.0	2.5

						13	G 2.5	
Chris is given so	even diffe	rent liquid	ls and test	s their pH		Ì	CAR	
Liquid	Α	В	С	D	Е	F	G TH	4
pH of liquid	4.0	8.5	3.5	2.0	13.0	7.0	2.5	.00
<ul><li>a) Which liquid</li><li>b) Which liquid</li><li>c) Which liquid</li><li>d) Write the liquid</li></ul>	l is the we			1 mark 1 mark 1 mark	· ·			
e) Which liquid							3 marks	
Why?							 1 mark	

4) Farmer Cassar has a large farm on which he grows a range of crops He reads that potatoes grow best in soil with a pH value of 6.0.

a) What is meant by a pH value of 6.0?

1 mark

b) He tests the soil in several places on his farm to find pH values. The results are shown in the table.

soil sample	soil A	soil B	soil C	soil D
pH value	7.0	6.5	3.5	4.5

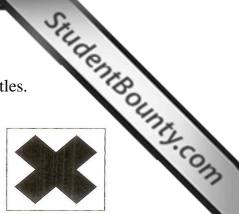
i) Why did he take readings in several places?

2 marks

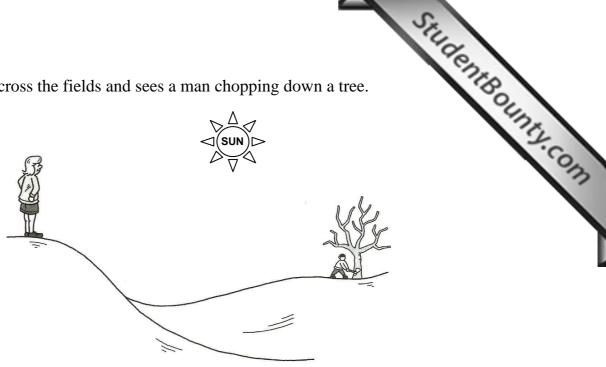
ii) Which soil sample is most acidic?

1 mark

c) Which soil sample is most suitable to grow potatoes in? Why?



6)		any changes take place everyday. Some of them are reversible and other What is the meaning of the word reversible?	s are not.
			2 marks
	b)	Are reversible changes called <b>physical</b> or <b>chemical</b> changes?	
			1 mark
	c)	Tick ( $\checkmark$ ) <b>three</b> boxes to show which changes are reversible.	
		cooling water baking bread	
		boiling an egg boiling water	
		dissolving salt in water burning a cand	dle 3 marks
7)	Th	e diagram shows a way of producing hydrogen. is method of collecting hydrogen uses one property of hydrogen.	4 h
	a)	Which property is this?	FIF.
	b)	Give another property of hydrogen.  2 marks	(000)
			1 mark
	c)	We test hydrogen by adding a lighted splint to the gas.  i) What happens when the lighted splint is put into hydrogen gas?	
			2 marks
		ii) When hydrogen burns in air it joins with oxygen to form a liquid. What is this liquid called?	
			1 mark



a)	Which object in the picture gives out light?	
		1 mark

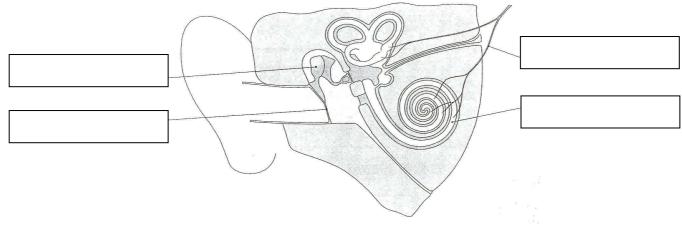
b) On the diagram draw rays of light to show how Jane can see the man chopping the tree.

2 marks

c) Jane can see the man chop the tree before she can hear the noise. Explain why.

1 mark

9) The diagram shows part of the human ear.



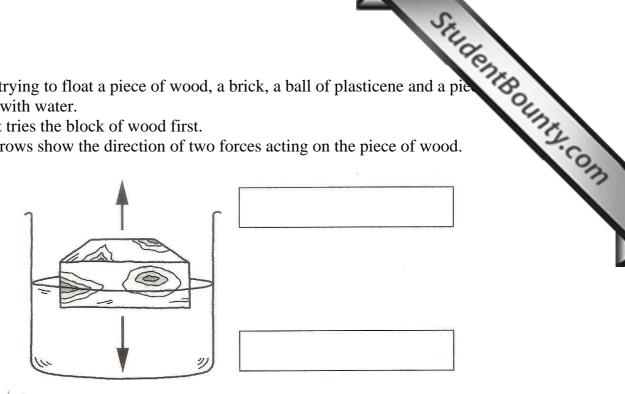
a) Label the diagram using the following words.

eardrum small bones cochlea nerve

4 marks

b) Describe what happens to our eardrums when sound reaches them.

1 mark



i)	On the	diagram	label	the	forces.

2 marks

ii) The wood floats on the water. Are these forces balanced or unbalanced? \_\_\_\_\_

1 mark

- b) Robert tries to float the brick on the water.
  - i) What happens to the brick?

1 mark

ii) Why?

2 marks

c) i) Say whether the jablo will float or sink.

The jablo will \_\_\_\_\_

1 mark

ii) Give a reason for your answer.

1 mark

d) Robert noticed that the ball of plasticene sank to the bottom.

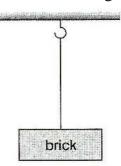
How can Robert make the plasticene float? Tick ✓ the correct answer.

Divide it into small pieces.

Make a hole in the middle

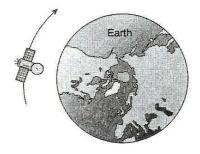
Give it the shape of a boat.

1 mark



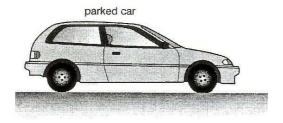
1 mark

b) The gravitational force of the Earth on an orbiting satellite.



1 mark

c) The force of the road on the tyre of a parked car.

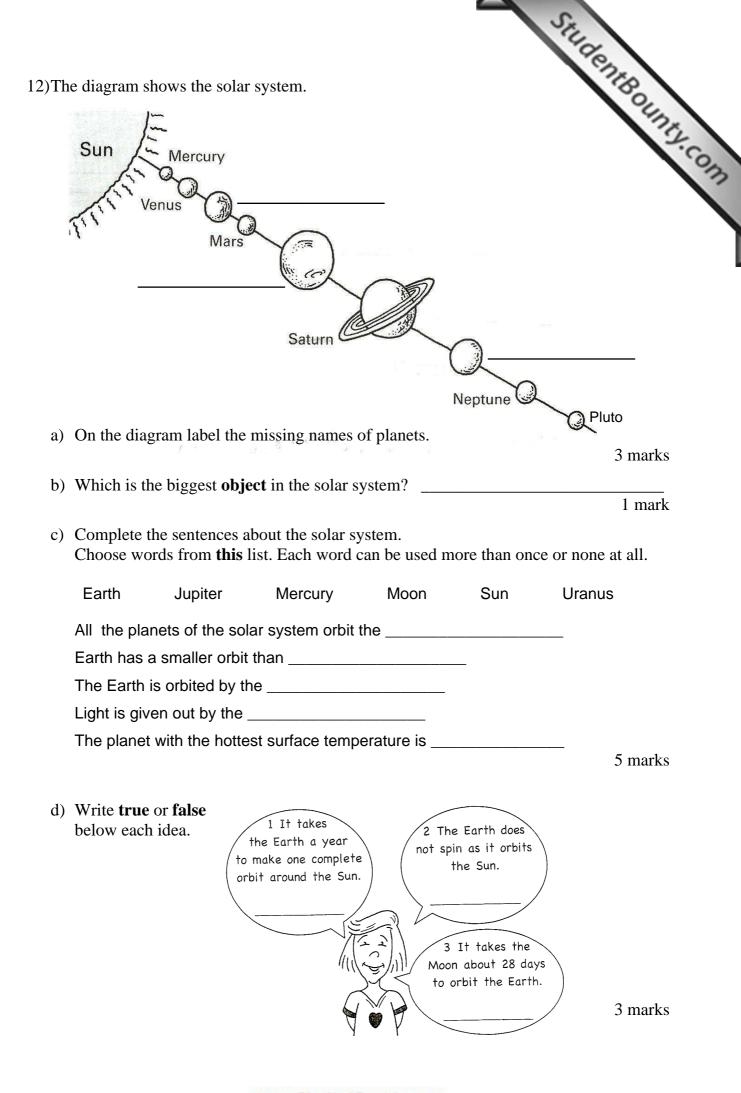


1 mark

d) The force of friction on the shoe of someone walking forwards



1 mark



13)Respiration body. Underline th	is a process in	which glucose cor	in the following sentences	vide en
a) Respirati	on takes place	in the (lungs, nose	e, cells, blood).	
•	•	ir, food, water, iro		•
		ng, drinking, think		
			me, when we run only, who	en we eat only). 4 marks
14)The body ne Use the follo			he sentences below.	
small	pieces	the blood	to be healthy	nutrients
Food is nee	eded to get er	nergy, for growth	and repair and	·
Carbohydra	ates, proteins	and fats are call	ed	
Teeth are u	sed to break	food into		
In the smal	I intestine foo	d is absorbed int	to	·
				4 marks
*	ve different sha e table below.	apes because they	do different jobs.	
	type o	f tooth	job	
	inci	sor		
	can	nine		
			To crush food	2 montro
				3 marks
16)Microbes ca a) Name tw			ith the help of microbes.	
	ob	ject	microbe used	
b) Answer t Yeast is	rue or false. used to make p	izza dough.		4 marks
Yeast is	used to make w	vine.		
Yeast is	used to make y	oghurt.		
Yeast is	used to make b	eer.		