JUNIOR LYCEUM ANNUAL EXAMINATIONS 2009

Directorate for Quality and Standards in Education **Educational Assessment Unit**

FORM 2

INTEGRATED SCIENCE

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Class:

Name: _____

ANSWER ALL QUESTIONS

- 1) Different organisms live in different habitats.
 - a) Draw a line from the organism to its habitat.

crab	freshwater
earthworm	desert
seagull	seashore
frog	soil
lizard	cliffs

b) The following table shows an animal and some information about it.

Valiant and	Polar Bear – Fact file lives on the cold Arctic ice covered in thick white fur
- and	thick fat layer stored below the skin short thick neck and legs
	small ear lobes broad feet which have large claws

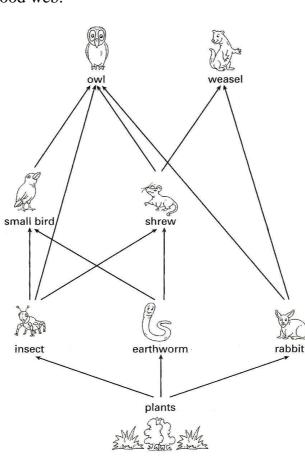
Select three of the features in the polar bear fact file and explain how each of them helps the polar bear to exist on the Arctic ice.

1)	 	 	
2)	 	 	
3)			
,			

3 marks

⁵ marks

2) The diagram shows a food web.



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.	
		1 mark
	ii) Name an animal that is both a prey and a predator	
		1 mark
	iii) Give two characteristics which help the owl to be a predator.	

2 marks

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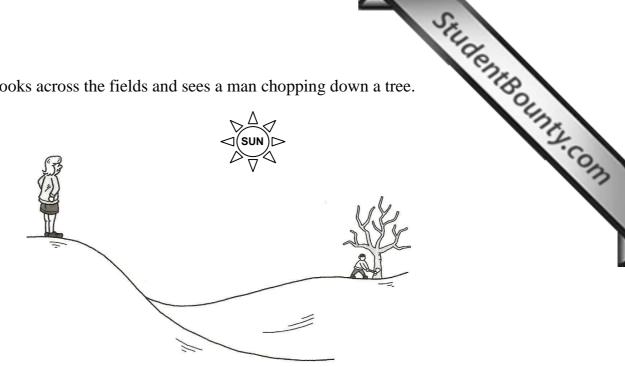
d) The shrews are all killed. Write **two** effects that this would have on the food web.

Liquid	А	В	С	D	E	F	G
pH of liquid	4.0	8.5	3.5	2.0	13.0	7.0	G 2.5
a) Which liqui	d is neutra	ıl?					
b) Which liqui	d is the we	eakest acid	1?				1 mai
c) Which liqui	d is most :	alkaline?					1 mai
d) Write the ab						to the me	1 mai ost alkaline.
			8				
e) What kind c	of reaction	occurs if	liquid B is	s added to	liquid C?		2 mark
							2 mark
		_					
Farmer Cassar I He reads that po	-		-		-	ops.	
-	-			a pri valu	C 01 0.0.		
		J walua at	6 02				
a) What is mee	un by a pi	H value of	6.0?				
		I value of	6.0?				1 mai
 b) He tests the The results a 	soil in sev	veral place	es on his fa	arm to fin	d pH value	es.	1 mai
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b) He tests the	soil in sev	veral place in the tab soil samp soil A	s on his fa le.	рН va 7.(alue) 5	es.	1 mai
b) He tests the	soil in sev	veral place in the tab soil samp soil A soil B	s on his fa le.	pH va 7.0 6.5	alue) 5	es.	1 mai
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la	any changes take place everyday. Some of them are reversib	ole and others are	- 4g
a)	What is the meaning of the word reversible?	ole and others are	
			1 mark
b)	Are reversible changes called physical or chemical change	es?	
			1 mark
c)	Tick (\checkmark) three boxes to show which changes are reversib	ole.	
	cooling water bak	king bread	
	boiling an egg boi	iling water	
	dissolving salt in water	rning a candle	
Thi	the diagram shows a way of producing hydrogen. This method of collecting hydrogen uses one property of hydrogen Which property is this?	ogen.	3 marks
Thi a) 	his method of collecting hydrogen uses one property of hydro Which property is this?	rogen. I mark	00
Thi a) —— b)	his method of collecting hydrogen uses one property of hydro Which property is this? 1 Give another property of hydrogen.		3 marks
Thi a) ––– b) c)	his method of collecting hydrogen uses one property of hydro Which property is this?	I mark	00
Thi a) b) c)	is method of collecting hydrogen uses one property of hydro Which property is this? 1 Give another property of hydrogen. We test hydrogen by adding a lighted splint to the gas.	I mark	00
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Thi a) b) c)	is method of collecting hydrogen uses one property of hydro Which property is this? 1 Give another property of hydrogen.	I mark	1 mark

7) a) Jane looks across the fields and sees a man chopping down a tree.



- i) Which object in the picture is a source of light? _____
- ii) On the diagram draw rays of light to show how Jane can see the man chopping the tree.

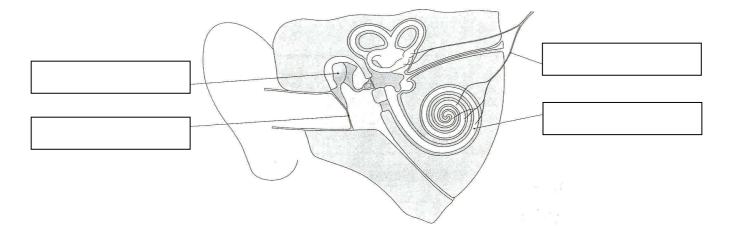
2 marks

1 mark

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

1 mark

b) The diagram shows part of the human ear.



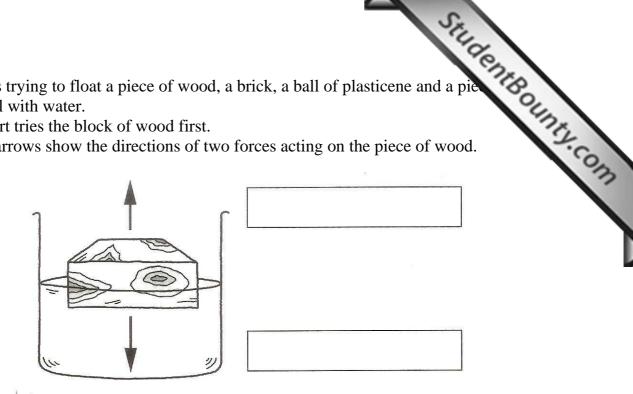
i) Label the diagram.

4 marks

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

1 mark

- 8) Robert is trying to float a piece of wood, a brick, a ball of plasticene and a piece in a bowl with water.
 - a) Robert tries the block of wood first. The arrows show the directions of two forces acting on the piece of wood.



- i) On the diagram label the forces.
- ii) The wood floats on the water. What does this tell you about the forces acting on the wood?
- b) Robert tries to float the brick on the water.
 - i) What happens to the brick?
 - ii) Why?
- c) i) Predict whether the jablo will float or sink. The jablo will _____
 - ii) Give a reason for your answer.

1 mark

1 mark

2 marks

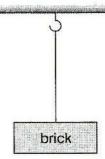
1 mark

1 mark

2 marks

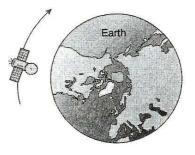
d) Robert noticed that the ball of plasticene sank to the bottom. How can Robert make the plasticene float?

- StudentBounts.com Draw an arrow on each of the following diagrams to show the direction of the 9) named.
 - a) The weight of a brick hanging from the ceiling.

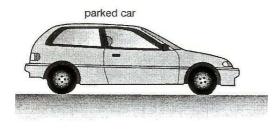


1 mark

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



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



1 mark

1 mark

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



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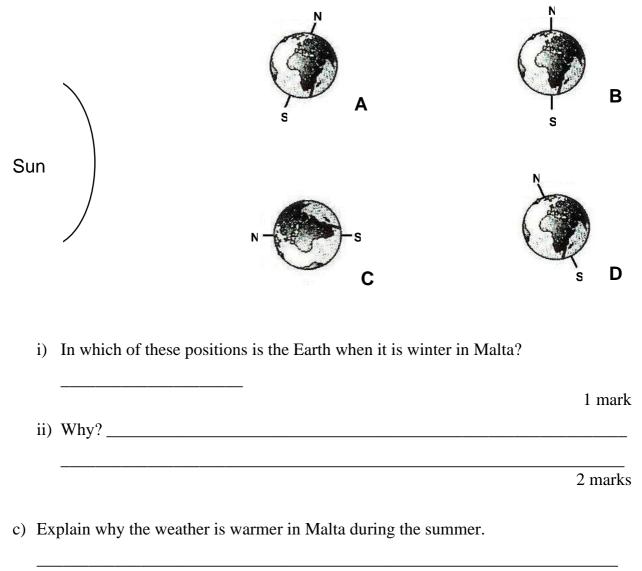
1 mark

ii) On the diagram write an A to show the position of the asteroid belt.						Se
 a) i) On the diagram label the missing names of planets. a) i) On the diagram label the missing names of planets. b) Complete the sentences about the solar system. b) Complete the sentences about the solar system. choose words from this list. Each word can be used more than once or none at all. Earth Jupiter Mercury Moon Sun Uranus All the planets of the solar system orbit the	0) The diagram	shows the solar	system.			4 dentBour
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3 mark ii) On the diagram write an A to show the position of the asteroid belt. 1 mar b) Complete the sentences about the solar system. Choose words from this list. Each word can be used more than once or none at all. Earth Jupiter Mercury Moon Sun Uranus All the planets of the solar system orbit the Earth has a smaller orbit than The Earth is orbited by the Light is given out by the	a) i) On the				Neptune	Q Pluto
1 mar b) Complete the sentences about the solar system. Choose words from this list. Each word can be used more than once or none at all. Earth Jupiter Mercury Moon Sun Uranus All the planets of the solar system orbit the	a) i) On the	diagram laber t	ne missing name	s of planets.		3 marks
Choose words from this list. Each word can be used more than once or none at all. Earth Jupiter Mercury Moon Sun Uranus All the planets of the solar system orbit the Earth has a smaller orbit than The Earth is orbited by the Light is given out by the	ii) On the	diagram write a	an A to show the	position of th	he asteroid	belt. 1 mark
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Earth has a smaller orbit than The Earth is orbited by the Light is given out by the	Earth	Jupiter	Mercury	Moon	Sun	Uranus
The Earth is orbited by the Light is given out by the	All the p	lanets of the	solar system o	orbit the _		
Light is given out by the	Earth has	s a smaller or	bit than			-
The planet with the bottest surface temperature is	Light is g	iven out by th	ne			
	The plane	et with the ho	ottest surface	temperatu	re is	

11) a) Choose numbers from the list to complete the sentences below.

						below. 365
Choose	e numbers	from the	e list to cor	nplete the	sentences	below.
	1	7	24	28	31	365
The F	arth spins	around c	n its avis (once every	ł	
	×.			•		days
					·	•
The E	arth comp	oletes one	e orbit of th	e Sun ever	ry	days.

b) The diagram shows possible positions of the Earth relative to the Sun.



2 marks

espiration takes place in all cells.	StudentBount
Write the word equation for respiration.	°H
+ → + +	Z
•) Explain how the body gets the glucose needed?	5 marks
	2 marks
) Which is the most important thing produced during respiration?	
	2 marks
) How are the chemicals produced by respiration lost from the body?	

13)a) Name two infectious diseases and the microbe that causes each disease.

infectious disease	microbe
1.	
2.	

4 marks

b) Write two ways in which infections can be spread.

2 marks