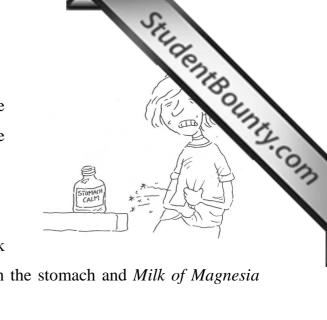
DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Department for Curriculum Management and eLearning Educational Assessment Unit

Annual Examinations for Secondary Schools 2012

Trac	
1.	3

FUR	VI Z	INTEGRATED SCIENCE	TIME: In Sumin
Name	e:	Class:	
		ANSWER ALL QUESTIONS	
1. a.	Vineg	gar is sometimes put on chips. It has a sour taste.	
	What	does the taste tell you about vinegar? Tick (✓) the correct box.	
	It is p	oisonous.	1 mark
b.	Red c	eabbage can be used to test acids and alkalis. It is bright red in	acids and purple in
	alkali	s.	
	(i)	What colour is it in lemon juice?	1 mark
	(ii)	Fill in the blanks:	
		Substances, which change colour when you add acids or	alkalis, are called
		Litmus paper is one example. It is	in
		acids and in alkalis. The universal indicate	or changes colour in
		acid and alkali. It is green in solutions.	
			4 marks
c.		abels of three chemical bottles have fallen off. The labels say led water, Sodium Hydroxide and Ammonia.	
		Which indicator would you use to match the bottles with their	
	(-)	labels? Underline the correct answer.	
			hillilii
		Litmus Paper Universal Indicator	
	(ii)	Give a reason for your answer. 1 mark	
			2



(i) Is *Milk of Magnesia* an acid or an alkali?

(ii) What is the reaction between the acid in the stomach and *Milk of Magnesia* called?

2 marks

(iii) Give another example of this type of reaction.

______ 2 marks

2. Draw an arrow on each of the following diagrams to show the direction of the force named:

a. The weight of a woman hanging from the bar.



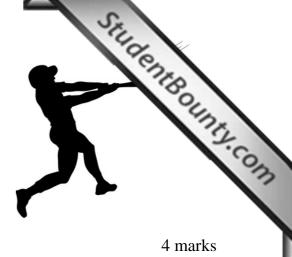
b. The force of the road on the tyres of a parked car.



c. The force of friction between the shoes and the ground.



d. The force of the bat on the ball.



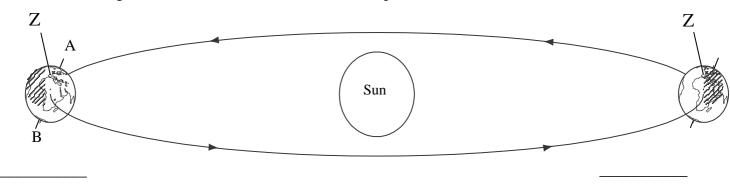
			4 marks
3.		eve rolls a ball of plasticene on the floor. The ball ops after some time. Explain why the ball slows down and stops.	
		2 marks	
	b.	Does the ball roll further on a flat wooden surface or on grass?	
			1 mark
		Give a reason for your answer.	
			2 marks
	c.	Steve changes the shape of the plasticene ball by squashing it. It become	s flat.
		(i) Is there any change in the mass of plasticene?	
		(ii) Is there any change in the weight of the plasticene?	_
			2 marks
	d.	Fill in the blanks:	
		He floats the plasticene in a bowl of water. The plasticene floats on the	water because
		there is a force called keeping it afloat.	1 mark

These are s	ome facts abo	out the Solar sy	vstem Write t	he correct word	for The Control of th
These are s	onic racis abo	out the Solar sy	stem. winte the	iic correct word	101
Fach word	can be used o	once, more that	n once or not a	t all	11
Lacii word	can be asea (mee, more mai	i once of not a	t uii.	24
Night	Sun	Venus	28 days	Mercury	a season
noon	gravity	24 hours	phases	365 days	OM
		<u> </u>		I	

a.	the changes in the appearance of the Moon as it orbits the Earth	
b.	this stops the Moon from moving away from Earth	
c.	a hot spherical star	
d.	the time taken by the Moon to orbit the Earth	
e.	the time taken by Earth to spin once on its axis	
f.	the time when part of the Earth is facing away from the Sun	
g.	the planet nearest to the Sun	
h.	the hottest planet in the Solar system	

8 marks

5. This diagram shows the Earth at two different positions in its orbit.



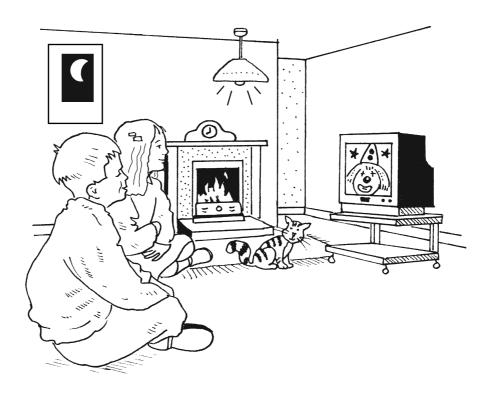
a. What is the line A – B called?	1 mark
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- b. What is the path taken by Earth round the Sun called? 1 mark
- c. Imagine that you are living in a country marked Z. At one position, it is summer, at the other it is winter. Write 'summer' and 'winter' under the correct parts of the diagram. 2 marks
- d. Draw an X on the diagram to show where the Earth would be when it is spring.

1 mark

Give the reason why there are seasons on Earth. e.

1 mark



b. Draw rays of light to show how the boy can watch television.

1 mark

- c. Draw rays of light to show how the girl can see the clock. (The clock is on the fireplace). 2 marks
- d. Light travels faster than sound but the children are seeing light and hearing sounds at the same time. Why is this?

2 marks

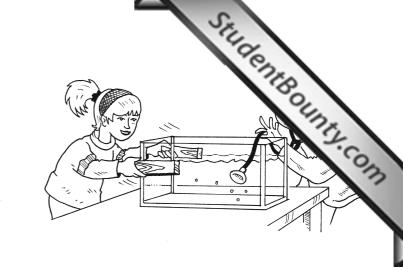
e. The moon can be seen through the window. Where does the light of the Moon come from?

1 mark

7. Two students are testing the movement of sound through different objects.

They are using a stethoscope, two pieces of wood and a tank of water.

The students knocked the pieces of wood together and used the stethoscope to listen to the sounds.



a. This is a report of their experiment. Some words are missing. Use some of the following words to fill in the blanks:

	hear	speeds	stethoscope	wood
	I knocked the p	ieces of	to	ogether. I used
i	the	to listen to	the sound. I recor	ded how well I can
_		the sound tro	avelling through	different materials.
Å				solids, liquids and
	gases.			
(5			4 ma
b. (i) l	Fill in the blanks.			
;	Sound travels fastes	t in	and slowest i	n
				2 ma
(ii)	Use the idea of part	ticles to explain yo	ur answer to (i).	
-				
				2 ma
From a	supermarket we can	n get many differer	nt foods.	
	THREE reasons w			
a. Give	THREE leasons w	ny we need 100d.		
				3 m

3 marks

			Stude	Pigothing.
b.	bar. advertis	market is selling a new chocolate This poster is being used to e this new chocolate. Ster shows that the bar contains Why do we need fibre in our diet?	t gives you	strength!
c.) TRUE or FALSE for each of these sentences.		2 marks
		E sentences are FALSE. For the false sentences, write out to e on the lines below.	the correc	et
	(i)	The chocolate bar in the poster is rich in carbohydrates.	TRUE	FALSE
	(ii)	Meat contains lots of carbohydrates.		
	(iii)	Meat is a good source of fibre.		
	(iv)	Fats are a good source of energy.		
	(v)	Carbohydrates are a good source of energy.		
	(vi)	We need proteins as a source of energy.		
				9 marks

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b. Use the information in the extract to write down a food chain.

______ 2 marks

2 marks

c.	From your food chain, give one example of an animal which is both	750
	From your food chain, give one example of an animal which is both and a prey:	CHIT!
d.	Explain the meaning of the words	
	(i) Overfishing:	
	(ii) Extinct:	2 marks
e.	State what happens to tuna if:	
	(i) all the sharks die out	
	(ii) all sardines, herrings, shrimps and shellfish die out	
		2 marks
Th	ne picture shows an old rusty bicycle.	
a.	Suggest the best way to prevent rusting	
	in the bicycle's	
	(i) iron frame:	
	(ii) iron chain:	
		2 marks
b.	Why is it beneficial to stop rusting?	
		1 mark
c.	Complete the following word equation that shows the reaction of rusting.	
	Iron +	2 1
		2 marks
d.	Sometimes aluminium is used instead of iron. Give ONE advantage aluminium.	of using
		 1 mark

11.

Tł	nis qu	uestion is about burning.	1.00	4	
a.	Bur	rning is a chemical reaction. What other word i	s used for burning?	ark	
b.	Look at the diagram of the candle burning.				
	(i)	What physical change is taking place?)	
	(ii)	What chemical change is taking place?			
			2 marks	1	
c.	Use	the fire triangle to explain why:			
	i.	the flame goes out when a candle snuffer is placed over the lighted candle.			
			1 m	ıark	
	ii.	a fire-fighter pours water onto a burning bush.			
			1 m	 ıarl	
	iii.	in large woods and forests people cut down breaks'.	some of the trees to form '	fire	
			1 n	— ıark	
	iv.	most forest fires occur in summer.			

- End of paper. Please check your work again -

1 mark