LANDAU FORTE ACADEMY AMINGTON

Year 9 Assessmnet Window 2

This booklet is for parents who wish to help their child with revision for the forthcoming assessment window.

Subjects have either provided more information about the skills needed for the assessments or an example of a paper to practise.

The assessment window starts 23rd January for 2 weeks.

Subject: English Year 9 Tracking 2

Length of Test 2 hours (plus 15 minutes reading time)

Content	What marks are awarded for	Marks available
Q1: Students will have to	-each correct statement	4
read a focussed extract		
and based on that extract		
select 4 statements out		
of 8 that are true.		
	- making statements that highlight the	8
Q2: Students will read two	similarities and differences between the two	
extracts that are on a	texts.	
similar topic and will be	- bringing together and comparing relevant	
asked to write for a	information from each text.	
guideline of 12 minutes	-using quotations that prove the comparisons	
comparing these two	that you are making.	
extracts.	- explaining how these quotes show the	
	similarities and differences.	
Q3: Students will be asked	-Making a point that answers the question	12
to focus on one of the	- Providing quotations from the text to	
extracts and will be asked	support and prove the point that you have	
a question around how	made	
language is used for	- Explaining why that quote proves your point	
effect. This is using the	- Explaining the effect of that quotation on	
PEEL skill that students	the reader using subject terminology (ie	
are very familiar with in	verb, simile, adjective etc	
lesson.	 Where appropriate selecting individual 	
	words from the text and explaining the	
The suggested timing for	additional impact.	
this question is around 18		
minutes.		
Q4: Students will be asked	 Making statements that highlight the 	
to compare the two	similarities and differences between the two	16
extracts fully. Bringing	texts.	
together the skills from	- Bringing together and comparing relevant	1
Q2 and Q3. Students	information from each text.	1

should use PEEL or PEECEEL to compare the comparisons that you are making. writer's use of language. Again a skill they have explaining how these quotes show the similarities and differences. by comparing poetry. This explaining the effect of that quotation on the reader using subject terminology (in	
writer's use of language. Again a skill they have used in lesson. Recently by comparing poetry. This - explaining how these quotes show the similarities and differences Explaining the effect of that quotation on	
Again a skill they have used in lesson. Recently by comparing poetry. This - explaining how these quotes show the similarities and differences Explaining the effect of that quotation on	
used in lesson. Recently similarities and differences. by comparing poetry. This - Explaining the effect of that quotation on	
by comparing poetry. This - Explaining the effect of that quotation on	,
is the same skill just the reader using subject terminatory (is	
is the same skill just the reader using subject terminology (ie	
looking at a different text verb, simile, adjective etc	
type.	
The suggested timing for	
this question is around 30	
minutes	
Q5: Students will be asked -Using paragraphs to organise their work 40	
to write a 'real world' -Using a wide range of punctuation accurately	
task in response to a and for effect	
statement. le. Write a -Starting their sentences in interesting ways	
letter to your -Using a variety of sentence lengths and types	
headteacher, or write an accurately and for effect.	
article for a newspaper, or -Using impressive vocabulary spelt with	
a speech for your peers. precision	
-Ensuring that their work is connected and	
Students will be asked to guides the reader through the text	
write to argue or -Using a variety of language features (direct	
persuade their reader but address, rhetorical questions etc) appropriate	
should concentrate more to the task.	
on HOW they write rather	
than WHAT they write.	·
Students are advised to	
attempt this question first	
and spend 45 minutes on	
this question.	

Year 9 Mathematics Revision

Your next tracking assessment will be during the dates:

30/01/17 - 10/01/17.

During this test you will NOT be able to use calculator

This test is very similar to the test that you will be given. Use it as a revision tool.

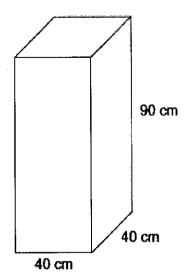
Q1.

Complete the table.

Fraction	Decimal	Percentage
<u>1</u> 4	0.25	
2 5		40%
	0.9	90%

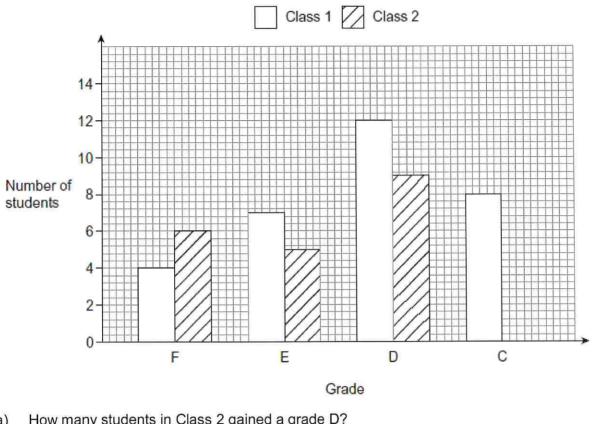
Q2. (a)	Show that 125 is a cube number.	
4.		
		(1)
(b)) $125 = a + b$	
(5)		
	$\it a$ and $\it b$ are square numbers.	
	Find two possible pairs of values for a and b .	
	$a = \dots b = \dots b = \dots$	
	and $a =$	(0)
		(2) (Total 3 marks)

Q3. The diagram shows a water tank in the shape of a cuboid.



Allower gallone	(Total 4 marks)
Answer gallons	
How many gallons of water are in the tank?	
1 gallon = 4.5 litres	
1 litre = 1000 cm ³	
The tank is full of water.	

The grade C results for Class 2 are not shown.



(a)	How many	students	in Class	2 gaine	d a grade D?	
-----	----------	----------	----------	---------	--------------	--

Answer	
	(1

(b) Work out how many students in total gained a grade F											
(b) Work out now many students in total gained a grade r	/h	11/05	cout hour	many	atudanta	in	total	aninad	-	arada	
	(D) (00)	Coul How	Illally	Students	11.1	totai	gairieu	а	grade	Ι.

Answer

(1)

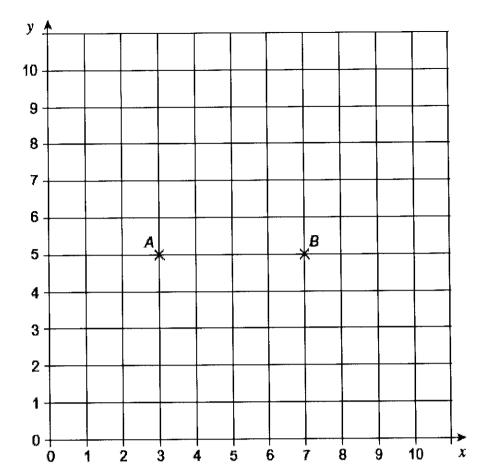
(1)

Class 2 has the same number of students as Class 1 (d) Complete the dual bar chart for grade C.

		(4)
		(Total 7 marks)
•		
Q5.Here is a parallelogram.		
A	B	
D	$\frac{1}{c}$	
Tick a box to show whether each statement is true or false.		
	True False	
AB is parallel to DC		
Angle A = Angle C		
The parallelogram has 2 lines of symmetry.		
The parallelogram has rotational symmetry of order 2.		
		(Total 3 marks)
Q6. Expand and simplify $3(2x + 5) - 2(x - 4)$		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Answer	(Total 3 marks)
$\mathbf{Q7.}P = 2a + 3b$	
Work out the value of P when a = 11 and b = 5	
Answer	(Total 2 marks)

Q8.Points A and B are shown on the centimetre grid.



- (a) Draw a rectangle ABCD on the grid with area 12 cm².
- (b) Write down the coordinates of point C and point D.

Answer
$$C$$
 (..........) and D (...........)

(2) (Total 4 marks)

(2)

Q9.Simplify fully
$$\frac{11}{2x} - \frac{1}{2x}$$

Answer	(Total 3 marks)
0.Ellie drives 169 miles from Sheffield to London.	
She drives at an average speed of 65 miles per hour. She leaves Sheffield at 6:30 am.	
Does she arrive in London before 9:00 am? You must show your working.	
	(Total 4 marks)
1.Work out the area of a circle, radius 3.5 cm. Give your answer to 1 decimal place.	
Answer cm ²	(Total 3 marks)

Q12.On this centimetre grid, draw one rectangle with

Perimeter = 20 cm

and Area = 24 cm²

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		 ***************************************						***************************************	
							 		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

(Total 2 marks)

213. Rearrange this formula to make t the subject.

	s = 3t + 4	

Answer <i>t</i> =	
	(2)
	(Total 5 marks)

Subject: Science Year 9 Tracking 2

Length of Test 1 hour

Science subject	Content	Keywords and skills needed
	and the state of the second second	Labelling diagrams such as an
Biology	Structure and function of living organisms	animal and plant cell.
	Cells and organisation (animal and plant cells) The balance and recognition protections.	Word equations for
	The skeletal and muscular systems	photosynthesis and
	Nutrition and digestion	respiration
	Gas exchange systems	Names of all of the joints in
	Reproduction	the human body. Role of Mitochondria in cells
	Health	Note of Millochondria in Celis
	Material cycles and energy	Keywords Cytoplasm
	 Photosynthesis 	Chloroplasts
	Cellular respiration	Glucose
		Diffusion
	Interactions and interdependencies	Foetal development
	 Relationships in an ecosystem 	Vitamins
		Minerals
	Genetics and evolution	Predator
	 Inheritance, chromosomes, DNA and genes 	
	Website for revision:	
	http://www.bbc.co.uk/education/subjects/z4882hv	
Chemistry	The particulate nature of matter	Filtration
Chemistry	Particles in solids, liquids and gases. Changes of state	Evaporation
		Filtration
	Atoms, elements and compounds	Neutralisation
	Pure and impure substances	Melting Boiling
	Dissolving	Condensation
	• Diffusion	Freezing
	Chromatography	Metalloids
		Writing word and simple
	Chemical reactions	symbol equations
	 Combustion 	37
	 Acids and Alkalis 	Using experimental results t
	 Reactions of metals and non-metals 	make conclusions
	 Thermal decomposition 	
		Analysis of graphs to form
	Energetics	conclusions
	 Exothermic and Endothermic reactions 	Plotting data onto a bar cha
		or line graph
	The Periodic Table	
	 Position of groups, metals and non-metals 	Variables
	How the table is organised	Independent(what is change Dependent (What is
	Materials	measured)
	Reactivity of metals using the reactivity series	Control (What is kept the
	Ceramics, polymers and composites	same)
	A 40 100 A	
	Earth and atmosphere	
	Structure of the Earth	
	Composition of the atmosphere	
	The rock cycle	
	The carbon cycle	
	Website for revision:	
	http://www.bbc.co.uk/education/subjects/znxtyrd	

Physics

Energy

- Calculation of fuel uses and costs in the domestic context (energy values, power ratings)
- · Energy changes and transfers
- Changes in systems

Motion and forces

- Describing motion (Speed of objects)
- Forces (balanced and unbalanced)
- Pressure in fluids
- Balanced forces
- Forces and motion

Waves

- Observed waves
- Sound waves (measured in hertz for frequency)
- Energy and waves (pressure waves transferring energy)
- Light waves ray diagrams

Electricity and electromagnetism

- Current electricity
- Static electricity
- Magnetism

Matter

- Physical changes
- Particle model
- Energy in matter

Space physics

- Gravity as a force
- The solar system
- The seasons
- Eclipses

Website for revision:

http://www.bbc.co.uk/education/subjects/zh2xsbk

Additional resources and activities on Sam learning will also be available. These will also form part of year 9's extended learning for Science which will help with their exam preparation

Students are also welcome to have a go at the practice exam paper to help them to prepare. Students can then use the mark scheme to check their answers and help to identify where they need to revise.

Units Kj-kilojoules W-Watts Kw-Kilowatt J- Joules V-voltage

Equations
Speed=distance/time
Weight=mass x gravitational
field strength (g), on Earth
g=10N/kg

Vacuum
Transmission
Absorption
Diffuse
Specular reflection
Reflection
Refraction
Convex and concave Lenses
Current
Amperes

Series Parallel

Potential difference

Resistance Electrons

Electromagnets

Melting

Boiling

Condensation Freezing

Sublimation

Evaporation

Dissolving

Density

Diffusion

Light year Galaxies

Stars

Planets

Using experimental results to make conclusions

Analysis of graphs to form conclusions

Plotting data onto a bar chart or line graph

Science revision - "Learning Lounge" - Every Wednesday in D-Corridor



3:30-4:30pm

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KEY STAGE ന

If you are asked to plan an investigation, there will be space for you The number of marks available for each question is given below the You will need: pen, pencil, rubber, ruler, protractor and calculator. mark boxes in the margin. You should not write in this margin. The test starts with easier questions. Try to answer all of the questions. Do not use any rough paper. Check your work carefully. The test is 1 hour long. Paper 1 Science test Remember First name Last name School

to write down your thoughts and ideas.

For marker's use only

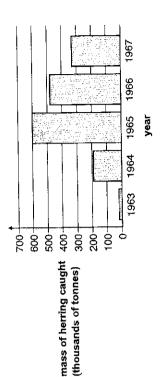
TOTAL MARKS

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The table below shows the number of boats used for catching herring fish in the Norwegian Sea between 1963 and 1967.

number of fishing boats	16	284	326
year	1963	1965	1967

The bar chart below shows the total mass of herring caught in the Norwegian Sea between 1963 and 1967.



Use the information above to help you answer parts (a) (i), (ii) and (iii).

(i) Why did the mass of herring caught increase between 1963 and 1965? (a)

(ii) Suggest why the mass of herring caught decreased between 1965 and 1967.

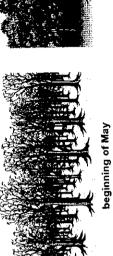
1 mark

Ask your teacher if you are not sure what to do.

KS3/08/Sc/Tier 5-7/P1

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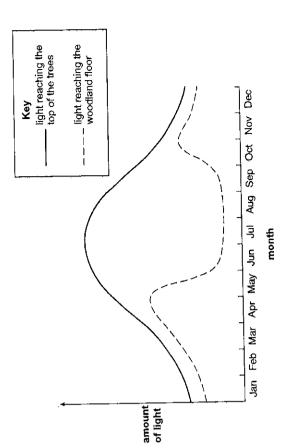
The drawings below show the trees in a woodland area at the beginning of May and at the end of May. 4





end of May

The graph below shows the amount of light reaching the top of the trees and the woodland floor over one year.



KS3/08/Sc/Tier 5-7/P1

<u>@</u>	Why does the amount of light reaching the woodland floor decrease during May? Plants grow on the woodland floor. Explain why these plants grow bigger and faster when there is plenty of light. Complete the word equation for respiration. Complete the word equation for respiration. Oxygen +	1 mark 1 mark 1 mark 1 mark 1 mark 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3. (a) The average The average Suggest two Purples of The average Suggest two Purples of The Polyth of The Polyth of The Purples of The Purpl	rerage life span of erage life span of erage life span of erage life span of two reasons versions and the following mouse guinea pig leopard chimpanzee whale the points using the doints using the doint using the doints using the doint using the doints using the	The average life span of a lion in a zoo is 22 years. The average life span of a lion in the wild is 17 years. Suggest two reasons why lions five longer in a zoo the average life span of a lion in the wild is 17 years. Suggest two reasons why lions five longer in a zoo the average length of average length of average leopard average length of average leopard average leopard average leopard average leopard average average leopard average span 40 To thimpanzee 250 Whale 315 Bo the plotted points using data from the table. To the plotted points using data from the table. To the plotted points using data from the table. To the plotted points using data from the table. To the plotted points using data from the table.	The average life span of a lion in a zoo is 22 years. The average life span of a lion in the wild is 17 years. Suggest two reasons why lions live longer in a zoo than in the wild. The average life span of a lion in the wild is 17 years. John found the following data about five mannmals. The pregnancy (days) (years) The property of the mannmals. The plotted points using data from the table. Solution of the points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table. Solution of the plotted points using data from the table.	
	maximum 5 marks			0 50 100 ave	100 150 200 250 300 350 400 average length of pregnancy (days)	250 300 350 400 450 of pregnancy (days)	
KS3/08/Sc	KS3/08/Sc/Tler 5-7/P1 5	Total	KS3/08/Sc/Tier 5-7/P1		Ø		

- Lavender oil vapour and water vapour cool as they pass down the **@**
 - A mixture of lavender oil and water collects in the separator.
- (i) What is the change in the physical state of both lavender oil vapour and water vapour as they cool?
- ₽ from _

1 mark

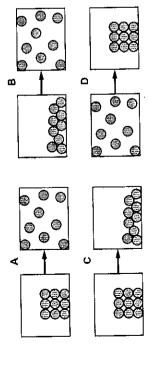
(ii) Look at the separator.

How does this show that the water is denser than lavender oil?

Rosie poured some lavender oil into an oil burner. She heated it with a candle. <u>ပ</u>



The oil changed state.



Which diagram represents this change of state? Write the letter.

maximum 5 marks

Total

1 mark

Elephants keep cool by losing heat from their ears. (a) ග්

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Predict which elephant can lose more heat from its ears.

elephant

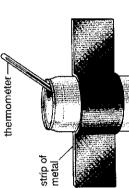
Give the reason for your answer.

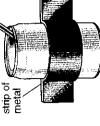
Ben filled two identical cans with 250 cm $^{\rm 3}$ of hot water. He wrapped strips of metal around them to model the elephants' ears. 9

6a 1 mark

1 mark

thermometer-





He recorded the temperature of the water in each can every 5 minutes. The table shows his results. metal can B metal can A

can A can B 60 60 54 57 50 54 46 52 43 50	

KS3/08/Sc/Tier 5-7/P1

2

£

Ben started with water at the same temperature in both cans. Give one other way he made his test fair. €

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1 mark

can B -- can A (ii) He plotted the results for can A and can B and drew lines of best fit. Key ¥ 09 50 45-55, temperature (°C)

Why is it more useful to present these results in a graph rather than a table?

time (minutes)

1 mark

(iii) The water in can A cooled more quickly than the water in can B. Does this support your prediction in part (a)? Tick the correct box.

yes Explain your answer.

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1 mark

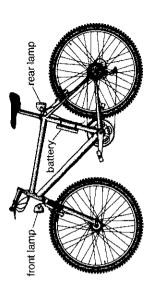
Ben repeated the investigation. Instead of a thermometer he used a temperature sensor and a data logger. Give one advantage of this. <u>ပ</u>

maximum 5 marks

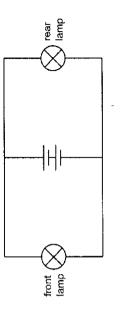
KS3/08/Sc/Tier 5-7/P1

13

Nina's bicycle has a front lamp and a rear lamp. Both lamps are connected to the same battery.



(a) The circuit diagram for the lamps is drawn below.



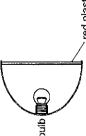
(i) On the circuit diagram above, place a letter A to show the position of a switch to turn only the front lamp on and off.

1 ruark

(ii) On the circuit diagram above, place a letter B to show the position of a switch to tum both lamps on and off at the same time.

mark Total

(b) The bulb in the rear lamp gives out white light.White light is a mixture of all the colours of light.



red plastic cover

The plastic cover acts as a red filter. Red light passes through the filter. What happens to the other colours that do not pass through?

(c) Nina replaces the battery with a generator called a dynamo. When Nina pedals her bicycle, the back wheel turns the generator.

Complete the sentences below using words from the box.

gravitational	thermal
electrical	punos
_	light
chemical	kinetic

As Nina pedals, energy in her muscles is

mark

changed to kinetic energy.

When the generator turns, kinetic energy is changed to useful

energy in the wires. This energy in the wires is

1 mark

changed to useful ______ energy in the bulb.

When the lamps are on, some of the energy in the bulb is wasted as

energy.

maximum 7 marks

Total

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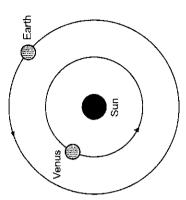
8. The table shows information about three planets in our solar system.

planet	time taken to orbit the Sun (Earth-years)
Mars	2.0
Venus	9'0
Earth	1.0

(a) Give one reason why Venus takes less time than Earth to orbit the Sun.

	The Sun is a source of light. Venus does not produce its own light.
بخ	its own
d Eart	agno
ius an	of pro
of Ver	loes n
The diagram below shows the orbits of Venus and Earth.	enus (
sthe	其
works	of lic
below	source
gram b	เรล
le diaç	e Sur
F	f

<u>a</u>



On the diagram above, draw rays of light to show how Venus can be seen from Earth. Use a ruler.

1 mark

1 mark

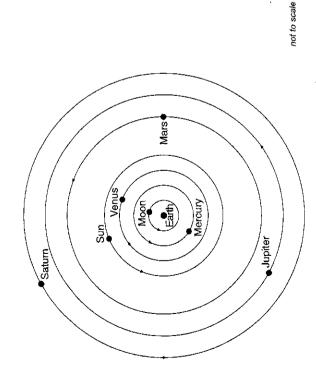
not to scale

Draw an arrow on each ray to show the direction of light.

KS3/08/Sc/Tier 5-7/P1

16

The diagram below shows how the astronomer Ptolemy drew the solar system 2000 years ago. <u>ပ</u>



(i) The planets Uranus and Neptune are missing from his diagram.

Suggest why Ptolemy did not include these planets in his diagram.

(ii) Today, we know the correct arrangement of the planets in our solar system.

T mark

Give one way the diagram above is incorrect. Complete the sentence below.

1 mark

In the correct arrangement,

5 marks
maximum

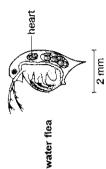
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A scientist tested kava to see if it can reduce the human heart rate. Before testing the drug on humans, she tested it on water fleas. Kava is a drug. It dissolves in alcohol but not in water. Ġ,



(a) She gave two groups of water fleas a different treatment.

treatment	one drop of kava dissolved in alcohol	one drop of alcohol	
number of water fleas	20	20	
group	₹-	2	

- She placed the water fleas in a dish of water under a microscope. She measured the heart rate of each water flea before the
 - treatment.
- She waited 30 seconds after the treatment was given and measured the heart rate again.
 - She calculated the average heart rate for each group.
- (i) Why did the scientist measure the heart rate of the water fleas before the treatment?

(ii) After giving the treatment, why did she wait for 30 seconds before measuring the heart rate?	And the second s	
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17

Total

method of prevention

satspapers.org	11. (a) Satish poured some water into a long tank in the school laboratory. He used a plunger at one end to make a wave. plunger tank 1.5 m	(i) The wave travelled to the other end of the tank. The speed of the wave was 2 m/s. How long did the wave take to travel to the other end? How long did the wave take to travel to the other end? (ii) Satish investigated how the depth of water in his tank affected the speed of the waves. Write a plan to show how he could do this.	KS3/08/Sc/Tier 5-7/P1 22
	1 mark 10c	· · · · · · · · · · · · · · · · · · ·	Total
satspapers.org	(c) People can be vaccinated against some diseases caused by bacteria or viruses. Describe how vaccination prevents a person getting a disease.		maximum 6 marks KS3/08/Sc/Tier 5-7/P1 21

Satish found the following information about waves in the sea.

@

speed of wave (m/s)	6.6	14.0	17.2	19.8
depth of sea water (m)	10	20	30	40

The diagram below shows how the depth of sea water changes.

sea water sea bed	
	ပ
	8
	_

Use the information in the table above to help you describe the speed of a wave as it travels from A to B and from B to C.

A to B	B to C

1 mark

	Total]
maximum 6 marks		

23

KS3/08/Sc/Tier 5-7/P1

Total	·-	_	9

The chemical formula for hydrochloric acid is HCI. The chemical formula for sodium hydroxide is NaOH. <u>a</u> 12.

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When they react together, two products are formed. The chemical formula for one product is NaCl.

(i) Complete the word equation below with the names of both products.

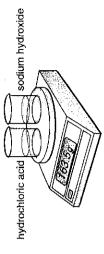
(ii) On the dotted line, give the chemical formula of the other product.

+		
•		NaCí
sodium + hydrochloric -	acid	HCI
+	41	
sodium	hydroxide	NaOH

1 mark

1 mark

The other contained 20 cm $^{\rm 3}$ of sodium hydroxide solution. The total mass was 163.5 g. In experiment 1, Moily put two beakers on a balance. One contained 20 cm³ of hydrochloric acid. **(**



She poured the acid onto the sodium hydroxide. They reacted.



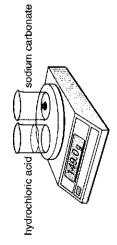
Why did the reading on the balance not change?

12p

1 mark

KS3/08/Sc/Tier 5-7/P1

(c) In experiment 2, Molfy put two beakers on a balance. One contained 20 cm³ of hydrochloric acid. The other contained 5 g of sodium carbonate.



She poured the acid onto the sodium carbonate. They reacted. Two of the products are the same as in experiment 1.

(i) Complete the word equation with the names of the three products.

1 mark

(ii) The total mass at the start was 149.0 g. When the reaction stopped, the reading on the balance was 147.0 g.

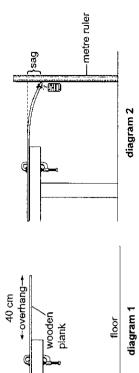
Why was there a loss of mass in this reaction?

maximum 6 marks
Total

1 mark

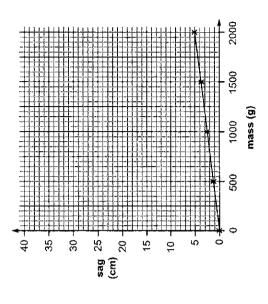
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 Oliver clamped a wooden plank to a desk. There was a 40 cm overhang as shown in diagram 1.



Oliver added masses to the end of the wooden plank as shown in diagram 2. He measured the sag.

The graph below shows his results.



(a) What measurements would Oliver need to take to work out the sag?

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-	-	
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•		

KS3/08/Sc/Tier 5-7/P1

satspapers.org

Oliver repeated his test with a new plank with an 80 cm overhang. His results are shown below. **a**

mass (g)	(wo) bes
0	1.0
500	15.0
1000	25.0
1500	31.0
2000	35.0

- (i) Plot the results from Oliver's second test on the grid opposite. Use the points to draw a line of best fit.
- (ii) In the second test the plank sagged with **no** mass added to it. Explain what caused this sag.

- (c) Compare the results of Oliver's two tests.
- (i) How are the results similar for each test?

F TEST
END O

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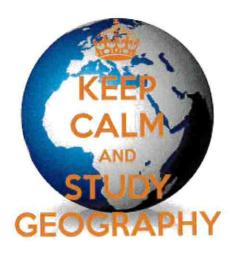
maximum 6 marks

Total	C.S
<u> </u>	

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QCA/08/3391 (Pupil pack) QCA/08/3298 (Mark scheme pack)

Year 9.2 – Geography Revision Guide



Name:	
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The aim of this revision guide is to support you in preparing for the Y9 assessments in Geography. You will be assessed on the topics you have studied since Year 7.

Revision advice:

Study each page of the revision guide in a **quiet place**, where you can concentrate. Put away your phone and computer.

Create your own set of notes or revision cards to help you to remember the information.

Speak to your Geography teachers if you need any help preparing for the assessment.

Highlight any key parts.

Get somebody to test you to see what you have learnt.

Geography map skills



<u>Compass Directions</u> These are used to help us get around and work out where different places are located. **TAKE CARE** when working out directions making sure you know where you start from.

FROM England to Scotland you go NORTH.

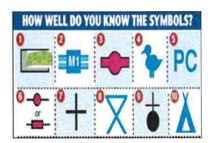
To N. Ireland FROM Scotland is SW BUT from N. Ireland to Scotland is NE

Map symbols are used to make it simpler to show different features on an OS map:-

- 1. Forest 2. Motorway 3. BUS station 4. Nature reserve
- 5. Public Conveniences (toilets) 6. Railway station 7. Chapel
- 8. Picnic site 9. Church with a spire 10. Camp site

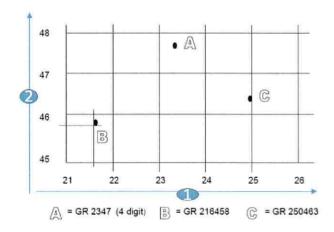
OS maps help show what can be found at different locations. The lines on the map are contour lines. Contour lines show places of equal height. The closer the contour lines together, the steeper the place is. The area opposite on the map is therefore quite hilly, with lowland forests and lakes.

The numbers (eg 335 Loughrigg fell shown opposite) show exactly how high up a place is.





Grid References



These are a skill you need to practice and LEARN. Remember :-

- Go along the bottom first (1).
- Take the two digit number up from the bottom left of the square the symbol is in
- Go up the grid second (2).
- Take the two digit number across from the bottom left of the square the symbol is in.

E.g.
$$A = 2347$$
,

$$B = 2145,$$

$$C = 2546$$

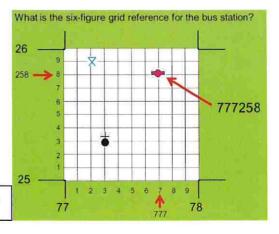
<u>6 figure grid references</u> are a close up on a map square to help us work out precisely where something is. *Imagine* each large square being broken further up into tenths across and up.

The 4 figure grid reference is 7725

Picnic table = 772 (2 tenths along from bottom left of square) and 259 (9 tenths up from bottom left of square) – 772259.

Church with spire = 773253

Hint – always imagine half way (5) across first then put a mark on the line

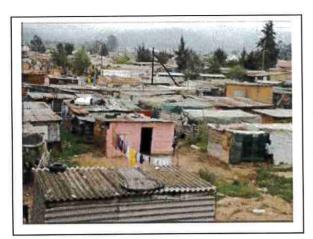


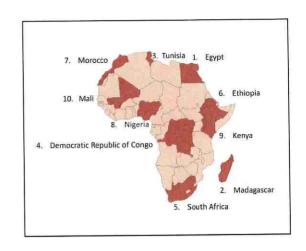
Africa revision notes

Africa is a continent with about 54 countries. It covers 30.2million km² being over 5000miles long between Tunisia and South Africa and has 1.1billion people.

Many countries in Africa are not as developed or wealthy as us.

LIDC means Low Income Developed Country eg. Kenya, Mali





Shanty towns in Nairobi Kenya. In many cities in Africa lots of shanty towns such as Kibera are built by people on land they do not own. The houses are made out of scrap material such as wood and metal. Usually up to eight people live in a house roughly the same size as your kitchen.

These houses have few basic essentials like ours without

any electricity, running water or waste disposal. The narrow streets are covered in filth and rubbish. They are very dangerous to women who often get **raped**. Within the shanty town there are many people with the **AIDS disease** and thousands of orphans who don't get chance of a basic education. The children have to scavenge and try to help their parents or carers make a little money so they can afford to eat.

AID is sent by rich countries to help Kenya develop. In times of disaster such as floods or famine we send short term aid such as food or clothes parcels. Long term aid is also provided by building them things such as schools, medical centres and new irrigation equipment. Life expectancy is much lower in Africa so it is hoped that the aid will help them be vaccinated against more disease and have better access to fresh clean water so they live longer.

Weather and Climate revision notes

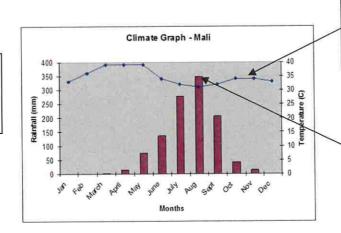
Weather is the day to day conditions of the atmosphere.

Climate is the average condition of the atmosphere over a period of time.

Always write about Rainfall and Temperature when looking at climate and quote figures/months

Climate graph interpretation

The **bar chart** always shows amount of rainfall each year.



The **line graph** always shows average temperature

ALWAYS quote data in your answers

e.g. There was 350mm rain in August

China Revision notes

<u>China location</u> China is the **fourth** largest Country in the World. It's located in **SE Asia** in the northern hemisphere. China is surrounded by **14** countries including India and Russia as well as the Pacific Ocean to the East. The Country is so large that it contains parts of the Gobi desert in the north and the Himalayas to the south.

The capital of China is **Beijing**, located in northern China with 22million people. It is a very popular tourist destination containing the Great Wall of China, the Forbidden City and Tiananmen Square.



China population

China has the largest population in the world with currently 1.3 billion people which brings many challenges.

Overpopulation (too many people to provide food for given the resources of the country) became a big threat. Originally in the 1950s China wanted big families of 4 children each but with 22% world population and just 7% of the arable land it became clear overpopulation was an issue.

One Child Policy was introduced in 1979 by the Communist Party. The government created a law to help reduce the population growth over 30 years and has managed to reduce the total population growth by 300 million people.

- Legal age of marriage increased to 22 years.
- Couples had to apply to the government to get married and to have a child.
- Those who conformed got free education, priority housing and benefits.
- Couples with One Child get 10% bonus in wages

Exceptions

- If you had a disabled child or twins then you could have another child
- If you live in the countryside and have a girl first then you are allowed to have another child because more are needed to help grow the crops and boys are seen as better to farm.
- · Ethnic minorities could also have another child

Effects upon females

Many families wanted a traditional male heir so aborted girls or killed babies.

Many girls are sent to orphanages so parents could then try for a boy.

In the cities there is up to a 3:1 boy-girl ratio

Effects upon males

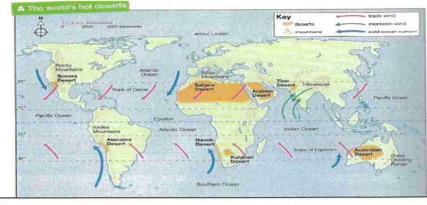
Boys often spoilt and obese because they are the only child and given everything they want.

Men have lots of competition for traditional male jobs. They struggle to find a wife (few women around) and become stressed because tradition says without being married you can't go to heaven. Men also now have to care for their elderly parents.

Y9 Desert Revision sheet

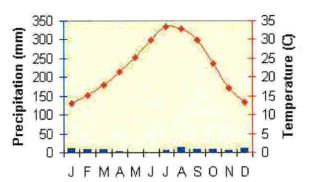
Deserts are located between 15° and 30° N and S of the Equator. The most famous desert, The Sahara, is located in North Africa. It stretches from the Atlantic Ocean to the Red Sea covering over twelve countries.

It is formed mainly due to the Trade Winds (an area of High pressure) where the sinking winds bring few clouds and rain to the area.



Desert definition: An area which receives less than 25cm of rainfall per year.

Yuma, AZ

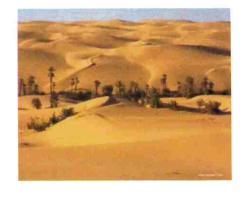


The **Desert Climate** is much different to ours. **Rainfall** is low, with some months having a complete **drought** – unlike in the UK where it generally rains each month. The **temperatures** are a lot hotter in the desert daytime because there are few clouds to stop the sun rays getting through and the sun is more overhead making it more intense. Daytime temperatures on average can reach over 35°C unlike in the UK where we average about 18°C. At night, however, with no clouds the heat is lost and it becomes very cold.

Extreme environments

A place where it is very difficult for people, animals and plants to normally survive due to extreme temperatures, lack of water and shelter.

A desert is a good example of an extreme environment



MEAR GRYLLS

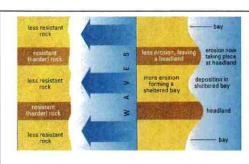
Extreme desert survival. Remember 'FADISS'

- Food supply. There are no food supplies in the desert or any places where food can be accessed if resources run out.
- Animals. The desert is full of poisonous scorpions and venomous snakes that could harm people.
- Dehydration. It's very dry so little water available for people to survive.
- Isolated. There is nothing to help people keep alive or safe if people get ill.
- Shelter. The desert is a wide open space with very little shelter to help protect people from the sun or sand.
- Sunburn. Without protection the sun damages the skin of people and animals.

Coasts revision sheet

The coastline is the edge of the land where it meets the sea.

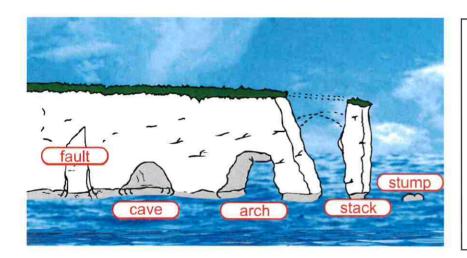
Erosion processes – the wearing away of the land by the sea				
Corrosion Salt chemicals in seawater dissolve the				
Attrition	Rocks bump into each other in the sea becoming smooth and rounded			
Abrasion	Broken rocks hurled at base of cliff			
Hydraulic action	Air is trapped in cracks and forced into them when the waves hit the cliff.			



Before

After erosion

Headland and Bays formed over time. The softer rock (Bays) gets eroded much quicker than the hard rocks (Headlands).



Headland erosion

The weak fault is attacked by the sea by hydraulic action and corrosion. It becomes bigger and turns into a cave. The cave sides are eroded by abrasion at high tide making them deeper. Eventually the cave will erode all the way through forming an arch. The arch roof collapses to leave a stack. Over time the base of the stack is eroded to leave a stump.

Y9 Natural Hazards Revision

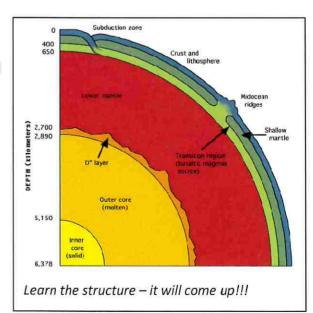
Natural Hazards are naturally occurring events in the world that threaten humans and property such as earthquakes and volcanoes.

The inner core is in the centre and is the hottest part of the Earth. It is solid and made up of iron and nickel with temperatures of up to 5,500°C.

The outer core is the layer surrounding the inner core. It is a liquid layer, also made up of iron and nickel.

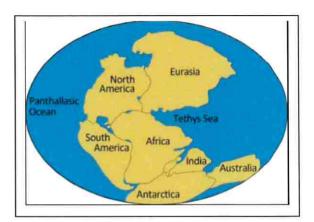
The mantle is the widest section of the Earth. It has a diameter of approximately 2,900 km. The mantle is made up of semi-molten rock called magma. In the upper parts of the mantle the rock is hard, but lower down the rock is soft and beginning to melt.

The crust is the outer layer of the earth. It is a thin layer between 0-60 km thick. The crust is the solid rock layer upon which we live.



- 1) the land masses fit together like a puzzle the shape of S.America and Africa
- 2) the fossil evidence is similar in certain continents from when they were together
- 3) the age and type of rocks are the same
- 4) the mountain chains seem to continue from continent to continent
- 5) climate changes show similar evidence
- 6) coal deposits in the eastern U.S. and Siberia match being created at the same time
- 7) sea floor spreading is occuring
- 8) paleomagnetism shows the different magnetic directions of the rocks over time.

Continental Drift evidence



Types of aid

Emergency or short-term aid - needed after sudden disasters such as the Pakistan Earthquake or the 2004 Asian tsunami. This will be to help with immediate search and rescue and food, water, medical care and shelter

Charitable aid - funded by donations from the public through organisations such as OXFAM. This is to raise money to help with the relief for poor people.

Long-term or development aid - involves providing local communities with education and skills for sustainable development, usually through organisations such as Practical Action. May involve building schools and more earthquake proof buildings

Multilateral aid - given through international organisations such as the World Bank rather than by one specific country. This is to help finance the country during hard times.

Tropical Rainforest Revision notes



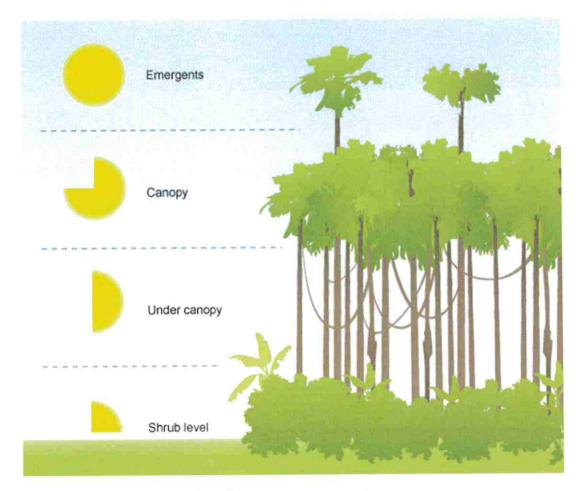
Location

Tropical rainforest biome is found in hot, humid environments in equatorial climates. They contain the biggest range and highest volume of plant and animal life found anywhere on earth.

In general, tropical rainforests have hot and humid climates where it rains virtually every day. The level of rainfall depends on the time of year. Temperatures vary through the year by 2°C.

Key facts to learn

Rainforests have a **Tropical Climate** because the areas close to the Equator have **low pressure** all year round. This means that it is very warm and wet **with convectional rainfall** occurring nearly every day.



Please note that sometimes other terms are used such as

Under Canopy/under storey

Shrub layer/forest floor

Rainforest vegetation levels

Tropical rainforests have dense vegetation. From ground level up these levels of vegetation are:

- The shrub layer. It is dark and gloomy with very little vegetation between the trees. During heavy rainfalls this area can flood.
- The under canopy is the second level up. There is limited sunlight. Saplings wait here for larger plants and trees to die, leaving a gap in the canopy which they can grow into. Woody climbers called lianas avoid having to wait for gaps by rooting in the ground and climbing up trees to get to the sunlight.
- The **canopy** is where the upper parts of most of the trees are found. The canopy is typically about 65 to 130 feet (20 to 40 metres) tall. This leafy environment is home to insects, arachnids, birds and some mammals.
- **Emergents** are the tops of the tallest trees in the rainforest. These are much higher, and so are able to get more light than the average trees in the forest canopy.

Subject: Design & Technology Year 9 Tracking 2

Length of Test 1 hour

Content	What marks are awarded for	Marks
		available
Q1: Students will need to	A correctly named natural material (which can be	2
name a naturally occurring	obtained and used without changing its chemical	=
material and a synthetic	composition) and a synthetic material (which has	
material	been processed and had its chemical composition	
(seasona de montanta	changed)	
Q2: Students will need to	- Correctly name the piece of equipment or	4
identify some textiles	component	
components and pieces of	- Describe it's use (how it is used or what it is used	
equipment and explain their	for)	
uses.	1220	
Q3: Students will be asked to	- One mark for each correct piece of health	3
list 3 health and safety	and safety advice	
points they need to follow	•	
when using a sewing machine		
Q4: Students will be asked	- Marks will be awarded for identifying the 6	
complete a flowchart to	stages of the process	6
explain a particular textiles	- Placing the stages in the correct order	
manufacturing process	- Naming and explaining the use of equipment	
	and materials used	
Q5(a): Students will be given	- 2 marks will be awarded for each function	6
3 functions of food packaging	one for identifying what the function is and	
and asked to explain why the	one for explaining why it is necessary	
function is necessary		
Q5(b): Students will be asked	- 2 marks will be awarded for each, one for	6
to explain what 3 key words	identifying what the word means in a Design	
used in Design and	& Technology context and one for giving and	
Technology mean	example	
Q5(c): Students will be asked	- Accurate and creative design ideas sketched	15
to design a disposable food	on the sheet	
package (like a McDonalds	 Materials and construction methods explained 	
Happy meal box).	 Surface decoration and colour used to meet 	
	the design expectations for the packaging	
	- Detailed annotation to explain how the design	
	meets the design criteria of the company	
Q5(d): Students will be asked	- Explaining the good points of their design and	8
to evaluate how their design	how it meets the keywords by highlighting	
meets the key words	features of the design	
explained in 5(a)	- Explaining how the design might be improved	
	or developed to make it more successful	

History – sample paper

SECTION 1 [28 marks]

- (a) Describe the way that African slaves were transported to the Americas. [4]
- (b) Explain why Mary I is called 'Bloody Mary.' [8]
- (c) Which of these reasons made it more likely that the First World War started in 1914?
- A. The Kaiser's personality
- B. The Alliance System

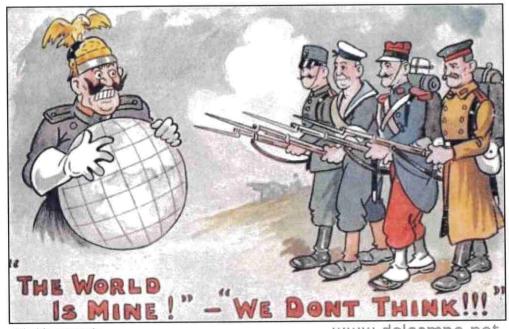
(12 plus 4 SPAG)

SECTION 2 [16 marks]

(a) How useful is this painting of the attack of Vimy Ridge to historians studying life in the trenches? [12]



b. Source B opposes Kaiser Wilhelm II. How do we know? (4)



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Religious Education 9 sample paper

- a. What is Euthanasia? (1)
 - b. What is an Agnostic? (1)
- a. Describe two different answers to the question 'when does life begin?' (2)
 - b. Name two places of pilgrimage for two different religions. (2)
- a. Describe three different beliefs about war (3)
 - b. Describe three ways in which religious people have challenged inequality (3)
- 4) Explain different beliefs that people have about using animals for food. (6)
- 5) 'It is never right to kill another human being'

Discuss this statement. You must include different opinions and a personal point of view. (12)

TOTAL: 30 marks

TV. Books and Radio

Q1 Draw a line to connect each Spanish sentence to the correct English meaning.

Yeo la televisión Leo revietas Escucho música Leo periódicos Veo películas Leo libros Escucho la radio I read books
I listen to music
I listen to the radio
I watch films
I read newspapers
I watch TV
I read magazines

Q2 Read what these three people say then answer the questions below in English.

No escucho música y no me gusta escuchar la radio. Me gusta leer. Me encanta leer libros y revistas.



Me gusta ver la televisión y me encanta ver películas. Leo revistas pero odio leer periódicos. Son aburridos.



Me encanta escuchar música y me gusta ver películas. No teo libros pero me gusta leer revistas y periódicos.



	a) Which person likes watching IV?	***************************************
	b) Which person does not like listening to the radio?	
	c) What do all three people like to read?	www.mannamianamann
	d) Which person likes to listen to music?	***************************************
	e) Which two people like to watch films?	
	f) What does Venus hate to read?	***************************************
	g) Which person loves to read books?	
Q3	Write in Spanish how you would say:	
	a) I like this film.	
	b) I don't like this film.	
	c) I like this book.	
	d) I don't like this book.	· · · · · · · · · · · · · · · · · · ·

Pastimes and Hobbies

Q1			army and jumbled up ite out each sentence			
	A Contraction	a) ovy a rad	na		• d)	hoag cariobe
	and the second				•••	
		b) ohag dos	ohag dossiermen		e)	yov ed spramco
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************			
		c) ahgo gof	not		f)	goah miccosil
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***********)	
٠	Vanessa Me gusta mucho ir de compra					
		Person	Opinion			
		Alfredo	No me gusta ir a nadar porc			
			Me gusta mucho ir de compras Me gusta hacer senderismo por			e es interesante.
		Osvaldo				
		Raimundo	Me encan	ta hacer esquí.	įEs	
		Emelina	Hago footing p	ero no me gust	a. E	s aburrido.
	a) Which	hobby does Os	valdo find interestin	g?		
	b) What d	loes Vanessa thi	ink of going shoppin	g?		*************************************
	c) Why does Alfredo not like swimming?					
	d) Why do	d) Why does Raimundo like to go skiing?				
	e) Which	e) Which hobby does Emelina find boring?				
Q 3	Complete	these sentence:	s by writing the word	ls in brackets i	ı Spa	ınish.
	a) Me gus	ta hacer	[cyc	<i>ling]</i> porque es	••••	[easy].
				•		[boring
	c) Me encanta hacer					

d) Odio hacer.....[jogging] porque es[difficult]