



Examiners' Report June 2011

GCE General Studies 6GS03 01

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Introduction

The themes of the paper - Section A on global warming/climate change, Section B on nature and nurture issues in relation to crime, were reasonably accessible. About 2 out of 5 candidates chose Q12, the Winston Churchill quote, and 3 out of 5 Q13 on the census. The difference is largely due to the fact that this is census year and many candidates appear to have been involved in its completion. Q12 provided the more interesting and speculative answers, possibly because the ground that could be covered was very extensive - war and peace, scientific progress, human nature and desires.

The questions were comparable in demand to previous years, and candidates are attracting more AO3 marks in the essay questions. There is still a need to make candidates more familiar with, and confident in using terms related to argument and evidence. Correlation was a statistical term that many candidates had heard of, but were not totally familiar with its meaning and significance. The differences between it and causality are extremely important to know in daily life debates on social and medical issues. The paper did not demand an explicit expression or use of forms of argument such as deduction and induction, but candidates should be advised to use these terms in relation to their own arguments. In particular they should be confident of recognising arguments from authority when they use them - and recognising their deficiencies.

Throughout the paper quality of communication (AO4) marks were generally achieved even in answers where the content did not attract good AO1/AO2/AO3 marks. However, AO4 was as variable as ever and some scripts were extremely hard to read due to style of writing (tiny, squashed, little height differentiation etc.). Although not marking the writing as such, it is hard to allocate marks when the difficulty of reading the script breaks up the flow of what has been written. More serious, the quality of paragraphing, spelling and grammar is sometimes difficult to reconcile with candidates of a good A level standard. Such problems would not be solved by the use of laptops and word processors, as some presume, although the text would at least be legible.

A small minority of scripts were marred by facetious or scurrilous comments. Our impression is that these are reducing year on year, but it is always saddening to read comments by students who insist they had no desire to enter this examination, but who were "forced" to do so by their centre.

A relatively straightforward question, which was answered well by most candidates. Many recognised that some newspapers willingly sensationalised issues in order to sell more copies. Less common was an understanding that different newspapers have different aims in writing about climate change and global warming - scepticism about scientific claims is a feature of some. Some candidates need to read the question carefully as a few gave a worthy exposition on the debate over climate change, but did not actually answer the question.

An example of a good response to the question. This is an explanation, and develops an argument. The mark scheme only credits specific points, however, rather than development of the argument.

Explain why some newspapers seem keen to link extreme weather events to climate change.
It is clarify that news healthnes 'vie for attention's so
making "aporalyptic prelictions" mill sell more newspapers,
as it is more interestly & Pranatic. New Spapers
nake more noney from public hydera.
It also means people are more likely to pay aftertion
to almate drange developments. It is therefore L
the herests of the environment for people to see
reasons - x. extreme weather - to change the way
they treat the embourent for the better
(Total for Question 1 = 3 marks)



This gained full marks - namely: grabbing the attention of the public; financial benefit to paper; raising awareness of the public to an important issue.

1 Explain why some newspapers seem keen to link extreme weather events to climate change.

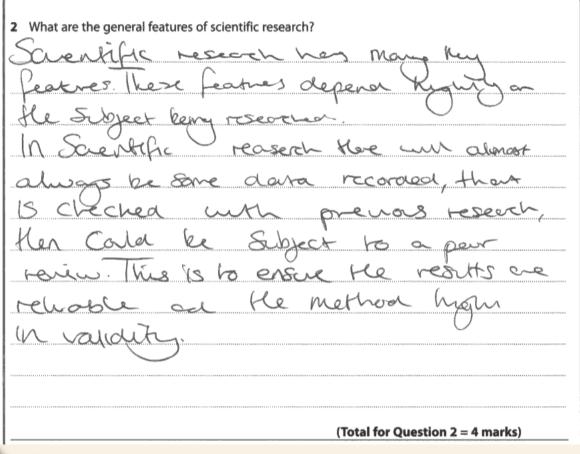
Extreme weather has always occurred throughout history but bere appears to be a link between climate change as a result of global warning with more trequent and and more disasterous weather extremes



This is an example of not reading the question - and not even giving a very clear description of the issue.

A majority of candidates could mention "experimenting" or hypothesising, but not many gave a clear development of the meaning of the "scientific research". The question did not refer to the source, so that candidates were free to introduce any examples they liked, but a small number felt they had to describe details of Cook's activities in recording the weather, or summarise points about climate change. The mark scheme allowed credit if the answer described an outline of the scientific method, as well as a more generic description of social aspects of scientific research.

An answer that was awarded two marks - one for mentioning peer review, and a more generous mark on collecting and checking data.





The candidate's answer reveals a hazy notion of the nature of science, and might have gained an extra mark by mentioning experimenting and hypothesising.



Analyse the question - it is about "science" and "research". Research is a common enough concept, and ways and methods of science should be familiar GCSE territory.

This is an example of a credit worthy answer that describes scientific methodology.

Results lus Examiner Comments

3rd, 4th, 5th and 6th marking points on the mark scheme. The 5th marking point is met because the answer refers to ideas that help prove the hypothesis although 'proof' is not quite the right term, it should actually be 'support'.

An answer that clutches at information provided in the two sources, and appears to have completely misunderstood the question.

2 What are the general features of scientific research?

Features of scientific research?

Features of scientific research?

Subject include the loss of seo ice in Adapt.

Antardico could be due to natural fluctuations,

Not human activity. Also not an extreme

Meteorological events and when natural

vanations in the weather and cumare

combine with long ferm change of their

leatures include the life office shaving

a detectible difference in human

Impate in long-ferm decline of

Sea ice:

(Total for Question 2 = 4 marks)



The point of this question was to encourage candidates to be critical of the weight that the project leader was putting on the evidence. How secure is the link between the weather observations and the volcanic eruption? What is meant by the use of the word "prove"? As expected many candidates commented that you needed more than one instance of an eruption and the ensuing weather events to be confident about the effect that eruptions have on the weather. A significant number noted that, although the quality of the observations was said by the project leader to be good, instrumentation must have improved subsequently, and one cannot be totally confident of observations made at sea in difficult situations.

A small minority of answers misunderstood the question trying to speculate on explanations of weather events other than by eruptions, although this did gain one marking point. Some even went as far as thinking that the weather could affect or cause volcanic eruptions.

3 In Source 1, the project leader said, "the weather logs helped to prove the effect on the climate of volcanic eruptions". How might another scientist challenge this claim?
This claim may be challenged as this is
only one example given (Mount Tambora) so
has not been proven to be the case again, especially
as the Icelardic volcara erupted violently
last year and we have still had high temperatures
since then There is also no identified direct
lease so it may be origidental rather than
a direct cause
(Total for Question 3 = 3 marks)



This is a simple but effective answer, making three valid points.

3 In Source 1, the project leader said, "...the weather logs helped to prove the effect on the climate of volcanic eruptions". How might another scientist challenge this claim?

Creating a very paradign, if a stepted then

Mis New idea with se cane accepted. A Scientish

Cena thallings his dawn by cardieting an

experience today here are many tetric

Ver conces, and whist are is empting his

Cand leg meather and see if # he vorceme

her any effect in a death strongthan his chellenge

the sugstist warmed howe to producted an many

vorcences, from arane he were

(Total for Question 3 = 3 marks)



This answer conveys a valid idea - a challenge could be made by devising further experiments, or rather observations, in the wake of other volcanic eruptions. As such it gains 2 marks.

Although this question asks for explanation, many candidates responded by selecting phrases from the source. This was acceptable if the answer made it clear that the historical observations were of sufficient quality, and comparable to modern day measurements. Those who interpreted the question in the way intended often made the point that historic observations made over the oceans provided early evidence from a large part of the globe, and which are therefore useful for comparison with the present day.

4 Using Source 1, explain why historical weather observations from ships at sea are particularly useful to climatologists.

The majority of the earth's surface is covered by sea and herefore the climate at sea will have had a large inpact on the overall global climate.

Climates of land areas are known but as these cover little of the earth's surface hay don't give and overall global picture however he areas can do this.

(Total for Question 4 = 2 marks)



This answer is worthy of one mark, as it comments on the fact that the weather over the oceans must have a large effect on continental weather since the oceans are relatively so large. The second paragraph restates the same point.



Check that you are not being repetitive. Saying the same thing twice is unlikely to gain you extra marks.

4 Using Source 1, explain why historical weather observations from ships at sea are particularly useful to climatologists.
And mere gove to stangorgises debrooms covergor - of year eccy god,
and in the small of an unheated cabin - this mean that they can
pe contary offense modern trounds in minite congresors be contarion.
(Total for Question 4 = 2 marks)



This answer qualifies for two marks - the records were made under such replicable standard conditions that they can be compared, and used, alongside modern records.

Very few answers gained full marks on this question, but it discriminated well between the higher- and lower-scoring candidates. Most candidates were able to select relevant evidence from the source and comment on the use made of it by newspapers. Although the sensational nature of press reporting attracted comment, and the "natural fluctuations" in summer sea ice were picked up, candidates did not often refer to the more substantial data provided by the Met Office, and the significance of that. That some candidates did not fully understand the question was shown by the amount of repetition and quoting, giving the impression they were floundering a bit. Candidates probably need more help/instruction on words like "misleading", in relation to evidence.

5 How well does the evidence in Source 2 justify the description of climate change claims as "misleading"?

Although the aticle makes this claim, it bosses its evidence around assumptions and predictions to the house to natural fluctuations, here the until 'could' is showing an uncertainty and just a general assumption.

In relation to it being misleading in other ways, a stronger point it makes is 'making apocalyptic predictions' which it says then distorts the publics wiew on things. This is true as there are so many people out there that have been led to believe the end of the world is right, therefore adding to the build up increases the idea that it is infact (Total for Question 5 = 4 marks)



An answer worthy of three marks. The candidate has picked up on the fact that some of the evidence is flawed by assumptions and has not been verified. The weasel word "could" has been spotted, as has the uncertainty over the fluctuating summer sea ice. It comments on bias by referring to "apocalyptic predictions".

5 How well does the evidence in Source 2 justify the description of climate change claims as "misleading"?

The climate change clams to be mesteading by the argument that there is not enough evidence and that the record-breaking losses in the past couple of gears could be easily be dup to natural fluctiations in the beather, with summer seating again



Only one mark for this answer - by referring to the uncertainty over the sea ice.

The question demands a short essay on the evidence that the climate is changing "inevitably" in the long term, from the two sources. Candidates should have focussed on the word "inevitable" and developed an answer around it. Marks are awarded on three objectives in this question - briefly, AO2 (making an argument, 4 marks), AO3 (understanding types of knowledge, 6 marks) and AO4 (quality of communication, 4 marks). Candidates generally made a reasonable attempt at producing an argument, and gained 3 or 4 marks for that, but did not often achieve a high mark for AO3. Higher grade candidate achieved a total of 8-12, whereas lower scoring candidates achieved 4-9.

Teachers still need to emphasise to students that they have to be able to comment on the quality of evidence - whether it is weak/ strong/ assertion/ fact/ opinion/ biased or unbiased. Since it may be that candidates cannot see clearly how to make these judgements, teaching should find ways to make them confidently and explicitly.

6 How far do the arguments and evidence used in Sources 1 and 2 support the idea that large-scale long-term climate change is inevitable?

Source I does not use evidence to support idea of large Scale long term climate change it is using weather patterns observed in the past to check for fluctuations & natural variation. If the findings show that the clinate way not verying naturally is 18th and 19th Century the Scientists can fry to prove that changes occurring now are not natural and anthroprogenic However it he overall results show that climate fluctuated as a result of things such a natural events, emption of Mount Tambara 1815 and a simple natural variation of the planet then claims by some scientists hat climate change is not influenced by the con human activity can be backed of with evidence. Source 2 disagrees with the idea of inevitable long term clinate change on a global scale, It makes he case hat the general public are influenced into extreme beliefs on climate change by exaggerated rews headlines which are generated to make a profit and increase viewing numbers. Source 2 also makes he point that peoples opinions can be set when authority ligures back the exaggerated claims so they are in the public eye also trialings from investigations can be manipulated and majority constructing figures disregarded to help prove a point. " Met Office do show that here is detectable human impact in long-term decline in sea ice over he past 30 years "An example of selective evidence to support a cause. The claims mut a tipping point has

been reached, tipping point is when the effects as a result of homen activity cannot be altered, to matter what changes are made these point is reached there is no return to previous clinate. Source 2 disagrees with this point by indicating to the lack of evidence to prove this.

Bother Source 1 & 2 in my opinion at not agree with the idea of long term large scale climate change but that natural variation & other factors have a large part to play:

(Total for Question 6 = 14 marks)

includes 4 marks for Quality of Written Communication



This is a good answer (a total of 12 marks). It considers the quality and thrust of both sources separately. The nature of source 1 - a historical analysis of data related to a single environmental event is clearly drawn out and it is concluded that this has no bearing on climate change being inevitable. Source 2 is likewise analysed and the shakiness of its conclusions perceived. The answer gains 4 AO2 marks, 4 of the AO3 marking points, and 4 quality of communication marks, a total of 12.

6 How far do the arguments and evidence used in Sources 1 and 2 support the idea that large-scale long-term climate change is inevitable? es the mentable. Just Stevenus abot le plannermons, but

Both attcles hald some evenue
How Chymone agre is monthal
[martable, Sarce I gues Manuar or no
rear line on Source I shows a
Clear line to explainess my clime and



This is a weak answer - there is little quality of argument, as the candidates selects a few phrases from both sources without making much comment on them. The first paragraph is flawed by trying to describe argument types/styles without a sense of comprehension. The piece gains 2 marks for AO2 and 1 mark for AO3, and 2 only for quality of communication.

Question 7 (a)

This question asked for a straightforward identification of the two research studies in the source. It was important, however that the candidate identified each study unambiguously. A large majority of higher scoring candidates were able to do so. Lower scoring candidates, however, were much less successful and a majority of those was only able to score 0 or 1.

7 (a) Give two studies referred to by the writer that have misled us on our understanding of the reasons for criminal behaviour.

(2)

1 A study of 200 men in a secure prochetrice
hospital in which try of found 7 with the extra

Y chromesome

2 receased has shorn XW corries have power 10

and come from power backgrounds they are more likely
to be consisted.



This answer has only unequivocally identified the psychiatric hospital study in the first response. The second answer is undefined and also has an incorrect understanding of the research.

7 (a) Give two studies referred to by the writer that have misled us on our understanding of the reasons for criminal behaviour.	
(2)
1 The Yudy of 200 men in a secure psychiatric	
hospital	
2 Study of prisoners in the US chaining to show a	
correlation between the extra Y and criminal behaviour.	



This answer clearly identifies the two studies.

Question 7 (b)

This was a much more demanding part of the question. Most candidates had some idea about a "moral issue", to do with right and wrong, making the commonest marking point that for considering punishment for something over which an individual might have no control as unjust. A large number of answers made this point, fewer went on to consider what in fact society might do about it if this were the case. Common faults in answers were repetition of the same issue, and wandering away from the moral aspect. It was rare for answers to gain full marks (4). Three quarters of higher scoring candidates gained 2, 3 or 4 marks, whereas half of lower-scoring candidates achieved one or two marks.

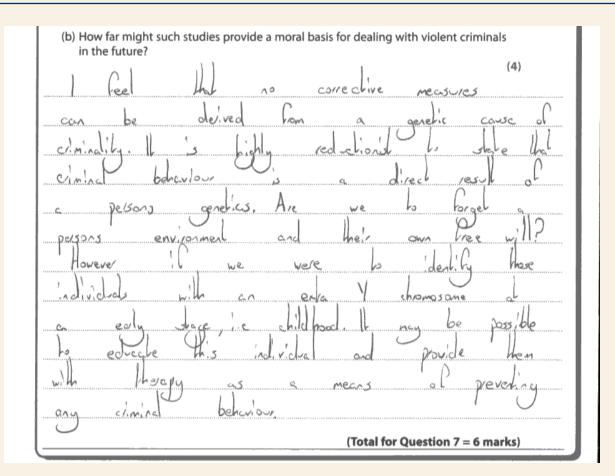
(b) How far might such studies provide a moral basis for dealing with violent criminals in the future?

(4)

People may argue that if people have an eartra y chromosome and criminal, it isn't their pault, thereore snowld they be punished for their genes. However their criminal behaviour may be down to their low 10, meaning they used to mass around at school and form anti-school subjectives if this is the case they should be punished as other people who a criminals and have a law 10 are positived.



This answer gains the single mark for the issue over punishing people for actions over which they may have no control. The second half of the answer dwells on an alternative scenario but in a confusing way. The answer teeters on a second mark, but doesn't quite make it.





This represents a humane and perceptive view of the situation, worthy of three marks. The correct identification of a reductionist view gains credit, and the moral dilemma raised in labelling is a good point.

Many good answers about the nature of correlation were produced. The idea of a link, positive or negative, seems to be well covered. However rather too many candidates said that this indicated that one variable was the cause of another and therefore deprived themselves of a mark. This important feature of statistics is one that is worth dealing in depth with in the course, because it results in much mistaken thinking about human issues and problems.

B Using Source 3, explain the meaning of the term "correlation".

A correlation is the (orn which refes to a link between two wonables. If there is a correlation which are pulled between two variable, which can be established then it is said that the two are correlatively with one can be. The 4 chronisteene has been correlated with cinuiality and violence since males make up the great megants of the prixin population. The 4 chronistee is this cause is seen as the cause for agression when makes cut ain individuals name likely to commit a critical for the feetors may contribute.

(Total for Question 8 = 4 marks)



This answer gains four marks. It mentions the three common marking points - link, between variables, Y-chromosome and criminality - and adds the note about not confusing correlation with causality.

8 Using Source 3, explain the meaning of the term "correlation".

The term correlation means that one thing eg the 4 chromosome leads to another eg and social behaviour. A good example of a Positive correlation is I cecream sales go up with a temperature increase.



One rather weak mark here. One thing "leads to another" is interpreted as causality and is not worth a mark, but the point about ice cream sales is just about a mark for correlation. Since the example is not from the source it does not gain a mark.

8 Using Source 3, explain the meaning of the term "correlation".

trend, which, in Source 3, elates to the behaviour of men with an extra Y chromosome It also looks at their 10 and their backgrounds in comparison to their genetic make up and their behaviour



This is well worthy of two marks. The idea of correlation, linking or relating is described and the example is from the source.

This proved to be quite a difficult question for candidates to grapple with. Higher scoring candidates provided better answers on the whole, not surprising because the syntax of the question was complex. Those candidates that discussed this in terms of genetic/chromosomal difference between men and women tended to score highly but many just gave the rather simplistic response that there were other causes of aggressive behaviour or entered into a nature/nurture discussion. This limited their ability to score more than 1 or 2 marks.

9 How would a knowledge of the causes of aggressive behaviour by women help or hinder our understanding of the link between gender and aggression?

If we have knowledge of the cowners of aggressive behaviour in women then we can compare this to comparisons will enable up to determine whether or not the y chromosome is infect responsible for the behaviour to possible that similar causes are faired in both gendes and this would recluce the impact of the ychromosome. This would took the validity of the data also and allow us to naile genealisations if we have research which is representative of the population (i.e. both genelus).

(Total for Question 9 = 3 marks)



An answer worth 2 marks - trying to work out if the cause of aggressive behaviour is the same in men and women, and can we blame the Y chromosome for aggression in men?

9 How would a knowledge of the causes of aggressive behaviour by women help or hinder our understanding of the link between gender and aggression?

extra chromosome are so more aggressive than usomen with a 2 chromosomes. This would show that it is possibly the Y chromosome which causes increased aggression is males thosewor if it showed that women with an extra X chromosome were more aggressive than those with 2 it would show the link that it is not the Y chromosome which causes he aggression. These hindings would not help with a link between greater the aggression.

(Total for Question 9 = 3 marks)



An unusual answer, because it focuses on the possibility of aggressive behaviour arising from the possession of an extra chromosome, X or Y, in either men or women and is worthy of 3 marks.

9 How would a knowledge of the causes of aggressive behaviour by women help or hinder our understanding of the link between gender and aggression?
The causes of aggressive behaviour in women
would add greater depth to the understanding of the
link between gender and aggression, as it would provide
more evidence to the study, as the research into men
and aggression cannot be seen as valid until a
wider scope of data and evidence has been achieved
(Total for Question 9 = 3 marks)



This answer shows how apparently sensible prose results in no further understanding. No marks.

What appeared to be an easy question was not answered particularly well. It did not differentiate well between higher scoring and lover scoring candidates.

Most answers concentrated on alternative factors such as environment/upbringing and the fact that low IQ prisoners are overrepresented as they are more likely to be caught.

Thorough answers were rare, most focussing on environmental issues or low IQ, whilst discussions of correlation, sample size or distribution amongst the wider population only appeared in a few answers.

10 From the evidence in Source 3, explain why it is not possible to decide if there are genetic causes of criminality.

It is not possible to determine that genes cause criminality, as in the paricular study munkoned in the source only 200 criminals have tested and in the source only 200 criminals have tested and in the source only 200 criminals have tested and in this is biased; The study has performed on criminals only, maybe testing on 200 members of the public may have found more people with an extra chomosome that hadric committed a crime. Also, only I have found with an extra 4, this is less than 4% of the participants which would route as an insignificance anyway which is left unproved that there is any possibling that genetics can cause criminality.

(Total for Question 10 = 4 marks)



Worth 3 marks, this answer covers virtually all the issues over the samples, and what can be reasonably concluded from them. 10 From the evidence in Source 3, explain why it is not possible to decide if there are genetic causes of criminality.

H Source 3 shows it is not really possible to show at decide if threes

a line bottomen quetic causes of criminally because not enough studies have been carried out. Also we con't unk the extreme chromosome to being a cause of criminality because people with this are shown to have a lover 10 and from poorer backgrounds

80 new one more likely to turn to chime.



This answer gains a good two marks - for pointing out that not enough studies have been done, and there are other factors than genes involved.

Answers to this question seemed to invoke a much more critical analysis by candidates of the quality of the evidence and in particular the presence of fact/opinion and bias/prejudice, perhaps because they found it easier to relate to this particular problem.

This suffered from most of the same deficiencies as Q10 with methodological issues getting scant mention.

AO3 was more accessible than in Q6.

Level 3 for AO2 was common, but gaining extra AO3 marks appeared much harder.

11 The writer claims that scientific studies have misled the public about the causes of criminal behaviour. How far do the evidence and arguments used in Source 3 justify this claim?
This claim is jumpied because scientific straces
have tried to highlight many links to form a
correlation between a chromosomes condition
and criminal behavior, however, this is unreliable
because subsequent research has found flews to the
explanations guier by scientists, is 10 scores for example.
Pigunents also support this crown because although
men make up the great may or ity of the prison
populais and therefore commit a higher
number of violent erines, there is still a large
umber of women committing violent crimes who do
not have an erra y chomosomo
Evidence and arguments is Source 3 may also not positive justify the claim because correlations have been
justify the claim because correlations have been
identified between possession of an extra Ychromosome
and crine meaning that crine may be coursed or
offuenced by the Y chromosome, executing as mon
make up the majority of the prison population. However,
as sufferers of the condition tend to have a lowe 10
and come from poorer backgrounds it may be argued
that the only difference is that they are more likely
to be cought
<u> </u>



AO2 is level 3, largely because the argument is not fully developed. AO3 marking points 1, 2, 4 and 5 from the mark scheme. Marking point 1 is given because the response refers to evidence. Marking point 2 is given because the response comments on the fact that a large number of women commit violent crimes. Marking point 4 is given because the response refers to people from different backgrounds. Marking point 5 is given because of the first paragraph. Marking point 6 is not given because there is no overall assessment of sufficiency.

AO2+AO3=7 marks.

Quality of communication is good - 4 marks.

Total mark is 11.

11 The writer claims that scientific studies have misled the public about the causes of criminal behaviour. How far do the evidence and arguments used in Source 3 justify this claim?

The endence in soule source 3 seems weather with alling with comma behavior In the selond paragraph it alls the phrase on all and this is a general sation and once no statistics to ball it at The stadies them sells at they side, they are small, as mall, and in all only mall, and in a account of remail agrees; on

A Ithough the all some other fallows onen
which gen't genetic to show how these
Stadiels all misslading, they all given little
dita to saw crem of For example low
Is and a poorle bulling on, which all enproper
enton ge given as non-genetic taltors to
Shok how they link to a xy strental
thoward these envronmental traits to



AO2 is level 2, because the argument only deals with the lack of data and poor statistics. AO3 marking points 1, 2, 4 and 5 from the mark scheme.

AO2+AO3=6 marks.

Quality of communication is only level 2. While broadly understandable, it is difficult to follow in places.

Total mark is 8.

The best answers here broke Churchill's assertion down into sections and dealt with these piecemeal, rather than trying to comment on the whole piece in one go.

Good answers here gave a balanced view from both sides of the argument. Often quite lengthy and well written answers only considered one side by agreeing entirely - people should work together then all wars, famine etc. would cease and it would be wonderful, science will continue to make us iPhones and solve global warming. The opposing argument - humans will always war and can't work together, science only makes nuclear weapons to kill people and enable us to pollute the planet - often appeared in other answers.

Many interesting points were made:

Humans are competitive by nature and greed will always cause friction. Wars are inevitable.

Competition in science is healthy as it speeds up progress (the race to the moon given as a good example of a massive movement forward in technology, with all the spin offs.) Wars are one of the major ways in which science has progressed through the ages. However weapons technology is a big failure of science.

Some good answers discussed the ways in which science has failed us, global warming being the major example. Science cannot solve all of the problems and often creates more problems than it solves. Too much technology makes humans lazy were an excellent and intelligent comment. Money spent on weapons would solve all famine problems, if nations could work together.

A very good answer discussed the context of Churchill's speech, just coming off a world war, where he was encouraging nations to work together at that time in history and giving hope for the future. More cynical responses criticised Churchill as a wealthy capitalist, only interested in business, and acquiring political standing in times of hostility.

Winston Chunchill also once stated the Further becknowns you can look the fuller forward you can see ; looking book to Churchill most formall period of the Second word won It'd to an of the most propp properous periods in hims histograph som of the quotest periods of scientific development since the own ofmontino. Whist the development of nuclear mapped is a regardably a regative thing it. Shevic be pointed our that own 10% of the world's power comes from nuclear reaction and which they is often meet with problem such is the chandole ducates one the necest gapon income, in all proposition en estados pover unil be a recusary fixel sorce a alterate recession such as sola as per being perfected as fossil full are a depleated our the next 100 years. On the other hard, most of the scientific enderous in human history how been for the purpose of peace, many would point out that the thirt the Militory application of deliterant on often the primary good the long ten usion is to create peace. Indust many of the modern brockes of science of focused or humanitories usues from as medication on a vocanation bother than wor. Also, what the ghout huma history than has never been a stake or grown peace as the agents or the time race desired person such as the terrain Renesance sou a primary peaceful society división mos lu botter de creatin and scientific development one whilst there us conflict one of one eur a regional scou. But others would point on that humanities conflicts

be core more one more violent as scientific developments how brought mon and mor powerful weapon in mediual england on Fork story told of a bottle between two connection which the only cossited were the recovers, demonstrated that the era was peaceful for most ove to the limited reach of beden - which make up a small proportion of a population 194 However, in the 20th control the perception of un no now humoning con remain peaceful has aftered singificanty, the Kubena File Dr Strongelow ; on how I stoped vorying and laved the bank demonstrates how the general populus now frew that global lecourt con Upe out the most of humonty by occident - Whilst both or there mooned are worths as faction it is clear that as technology has developed the perception is that people are more feaful nos that our On the other hand, many volue point out that technology had ocabled the owners wespen and that many of the current generation may live to 120 which is the post would have been bonduline in possible. This is one to the foot that they has been global co-aperation in the development on wocknown ever a the Tuberculasis yearing which scapped almost complete the one or the most deadly directed of cr demotion, Furthermon, Detrick Bokherfer German Procestat Theologist and anti Nazi activist once said the test of a morally of a cociety of is what it does for its children the development of new technologies has allowed alise Labour to be

greaty naved on the post 100 years and as no technologies one developed it ricy be inconcerted globally. Thus held only been possible because science had been allowed to according without the constraint of conflict.

I would conceive that Chunchill whist perhaps a little convenient of how technology had according to a more prospered in Saying that science Nas always been leading to a more prospered society; and that being perme and helpful will encourage scientific developedment touchous a scientific developedment founds. A scientific society return them on with a simply none and man powerful weepons, and thus use



AO1 + AO2 = 11 marks. This essay is a little one-sided, and does not consider much beyond the relationship between science and war. AO3 = 4 marks for marking points 1, 2, 5 and 6 on the mark scheme. It is well written and has a quality of communication score of 5. The total mark of 20 is well in that expected for middle grade candidates.

Winston church nu made a very good statement on how humans can have a prolonged and indefinate period of material prosperty. stating that "they only got to behave in a peaceful and help ful way to one another and science will do for them all they with and more than they could dream! To many people this state ment could have many meanings, * some of these may be for example, everyday people Fight over lands and materials, kuing thousands, if they just behaved in a peaceful manner they could resolve thier differences and come to some agreements about the land, also science could build and develop new londs for each of the fighting countries. It may also mean, science is very controlled by the government many things what are researched are what are at interests of Poniment. Yet many people fight With the government, carrie over funds and other things, if he just learned to caim down many of us could help out our neghbours by shanny things, while the funds that are being reducted from our hagerect could help ruence create amuch hoalthier we for us, for example moral panichit when many of dand Cameron's legislations were provide broadcasted and many

protected and nated against them, but the money that was reducted from benefits and money raised on raising tax has been spent on betterng public transport or helping the world ruch as ginny money to ireland and money so scientifiets can create and which will save many peoplestizes in countries such as africa where they have no privulages yet seem to have a more rolldarity of communities. These are just some ways it Could be newed Italia could be neved in a regative light such as many could promay it as they're trying to silence us and take away our opinions by bubing us with a better life. Also many people mainly religious have no faith in science and believe faith and god www girethem more than they could aream off they could rel this as science trying to take over religion which could offer mony work. Also people may become greedy and expect to much and when they don't get it could cause nots. There are many different evaluations of what Hinston Churchill said and many people may agree and disagree I think it all depends on the beliefs of that particular person.



AO1 Evidence drawn from a number of disciplinesAO2 Issue examined in a balanced and coherent wayMiddle of level 4= 16 marks

AO3=3 marks. Marking points 1, 2 and 6.

AO4 a well-written piece with a good standard of English, the handwriting is not very easy to read but this does not detract from the mark.

Question 13

The more popular essay question, but generating often basic answers with a lack of understanding of how a census is run and its purpose. The type of questions on the census were often misunderstood and a major problem was a general lack of understanding of the general nature of the questions, which cause no real security, or data protection issues.

Poor answers discussed the unreliability of the data because people don't tell the truth for a variety of reasons, the imposition by the government for no real gain and the personal nature of the questions. They showed no understanding of how the census data is used. A few were very keen on the influence of the Jedi on the reliability of the census!

Some answers which started off very promisingly petered out quickly. Some answers had a good grasp on how the census data could be used for social purposes and planning and had a balanced view of the cost and imposition on the public against the usefulness of the data. Importantly such answers had an understanding of the general nature of the questions and the limited security issues.

The use of census data from the past also was mentioned in terms of historical research and the increasing interest in one's ancestry. These answers also mentioned the reliability of the data and its security, but in a much more balanced way.

Every 10 years Uk howehold are required to fill out a Census from Many page of statistics are produced as a result Many There are many reasons for and against this statement. Firstly you can swhyy this so it will create data that is very weeful to support the change in life over 11 years and him things divelop. Another positive point is that it can easily count the formation size, the amount of furthe per howelds, and the amount of howehold carnings which can be very wegul. all this could be because all the information gathered could be seen as unrecessary, and their can already find out most of the information anyway - its Just a waste of the howeholdes hime! Further were It would cost the government a portion to conduct a surrey like this and in a pay pool economic climate like we're in New it would seem wrong to spend away on this when it could great it on sanry the ecomony In conclusion, I believe boths, are fairly evenly justified and that seeven through it could be rehevent ixprimation and could be used in the future, is very costly and at this him would seem wrong to the di. Therefore I believe this data survey could be jurified if done cheap, or when our ecomomic growth is high so that

We can easily apport it.



A short essay, reasonably expressed which gains a total mark indicating a low mid range grade.

AO1/2 - gains 11 marks for a piece low on evidence, and as a consequence limited and one-sided. AO3 is given 2 marks, for some evidence and an attempted justified conclusion.

Quality of communication gains 4 marks, the piece is paragraphed well, and its meaning is clear.

The total is 17 - characteristic of just below the middle of the grade range.

The census how been taken every decade in the UK for over 100 years. It now consists of many pages of questions about one's life, work and finances and must be completed by Jan.

It could be groved that the census is an important tool for gathering statistical data. It does not rely on samples with the possibility of bias or distortion but assesses the entire population and provides accorate results. The census is used by the government to plan its budgets. By assessing The needs of the whole cantry money can be spent effectively and efficiently where it is needed. Because of the cletarled nature of the cursus, it is also used by multitudes of other organisations as data and information they can Use themselves Census results are an invaluable source of detailed and accurate demographic and finducial information. The census also allows us to gain a "state of the nation" assessment of The UK which is useful in itself, and the census is only taken one on one day per decade, which is not a demanding task.

However, the cersus has been conticised. It is argued that the detailed questions and me legal

duty to participate are an intresion into personal matters by the government, and are an invasion of privacy. The census has been perceived ous a "Symbol of the "big state" as the government excroaches on individual freedoms. The census is also incredibly expensive and a huge logistical challenge for a sanething with questionable value. In times of economic downtern, it could be organed the many could be better Spent elsewhere The census has been crand for over 100 years, and for many it is an outdated concept, even with modernising approaches such as doing it online. The census is also argued to be unrepresentative as it praides data for one day only. The responses d millians y people take years to organise and publish, so by the time census dota is known, it may no tonge be representative Also, changing attitudes to the census are encapsuland when in 2001, several masand people answered 'Jedi' as their religion, illustrating a hone of

public contempt for this inditation.

The ser census does have some benefits as a statistical tool but it is an artidated concept with little areal value and the Ulars put into it are not justified by me artcomes.



An example of a well constructed high scoring essay.

AO1/2 is 18 - the essays covers evidence for and against as fully as one can expect in the time available, and draws a justified conclusion. Like many candidates, finding AO3 marks is difficult, because candidates rarely reflect on the worth of their evidence, where it comes form and whether it is opinion or fact - it gains 2 marks for using evidence and drawing a justified conclusion.

Quality of communication is well above average - 6 marks. Total 26 marks, in the top grade range.

The pape	r Summ er was com	parable in	difficulty t	o previous	sessions.	All sections	were acces	ssible,
attracted	I some very	good resp	onses, an	nd candidat	es could w	rite with co	ction C essa onfidence o	ays n eithe
selection	.There are	continuing	problems	in quality	of commu	nication.		

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