



Examiners' Report June 2015

GSCE Geography B 5GB3H 01

Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications come from Pearson, the UK's largest awarding body. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at www.btec.co.uk.

Alternatively, you can get in touch with us using the details on our contact us page at www.edexcel.com/contactus.



Giving you insight to inform next steps

ResultsPlus is Pearson's free online service giving instant and detailed analysis of your students' exam results.

- See students' scores for every exam question.
- Understand how your students' performance compares with class and national averages.
- Identify potential topics, skills and types of question where students may need to develop their learning further.

For more information on ResultsPlus, or to log in, visit www.edexcel.com/resultsplus. Your exams officer will be able to set up your ResultsPlus account in minutes via Edexcel Online.

Pearson: helping people progress, everywhere

Pearson aspires to be the world's leading learning company. Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at: www.pearson.com/uk.

June 2015

Publications Code UG041647

All the material in this publication is copyright

© Pearson Education Ltd 2015

Introduction

This was second year of this style of geographical decision making paper, formerly and still informally known as a decision making exercise. Without a pre-released booklet the test for candidates was to absorb information from the resource booklet about a clearly defined set of geographical concepts and contexts before moving on to make a choice about the best way of moving forward. Candidates can draw on knowledge and understanding gathered from both of the other exam units and use a grasp of fairly generic concepts based around sustainability but also other themes. The most important skill is the ability to deconstruct questions successfully, which includes the comprehension of the key terms. To be precise it is obviously helpful to know why differences of opinion occur and what vocabulary to use to examine this. Thus terms such as economic, social, political and environmental thread through this type of exercise and candidates who are confident in using them have a readymade frame for answering several questions. Above all it is very useful to understand that almost all decisions are going to be compromises and that there will always be some who benefit more than others and always some who do not benefit at all. Even if not specifically asked to do so candidates would be well advised to consider, for example, whether shortterm gains might be offset by longer-term losses, an especially significant debate for almost any political decision. Having practised on last year's paper and, perhaps, the Iceland sample paper many candidates produced sophisticated arguments in their extended answers, most notably on Question 4 but also on Questions 3 and 2(d). Even those who were less comfortable with the whole issue surrounding the aguifer were able to make some interesting comments about some of the other contentious issues.

Question 1 (a) (i)

Much depended on getting this question right given how central the present and future state of the aquifer is to the theme of this geographical decision paper. Hence it was clearly defined in the Resource Booklet and simply required candidates to find the appropriate reference and transcribe it here. It was surprising how many failed to do this effectively, and even more surprising that whatever they might have written in their response to this question how quickly some of them forgot it in subsequent questions.

This response scored both marks.

Answer ALL questions.

- 1 Study Section 1 (pages 2, 3 and 4) of the Resource Booklet and answer the following questions.
 - (a) (i) Define the term aquifer.

(2)

a large area of rock containing groundwater under the water table



Sometimes it is best to keep it simple - a two mark question with two points to make and an answer with those two points made.



Definitions are generally found in the Resource Booklet - why not highlight them as you read it through.

1 mark was awarded for this response.

Answer ALL questions.

- 1 Study Section 1 (pages 2, 3 and 4) of the Resource Booklet and answer the following questions.
 - (a) (i) Define the term aquifer.

(2)

A large area containing apprind water it helps water be sustainable and a revalue source



Some candidates offer explanatory information even though it isn't required. That sometimes, as in this case, is combined with a second descriptive point.



If asked to define it isn't necessary to add explanatory detail.

Question 1 (a) (ii)

The point of this question was to get candidates to focus on how this is a fossil resource that is not renewable, at least not in reasonable time frames. As with Question 1 (a) (i) the answer was explicit in the Resource Booklet and the majority of candidates found it, although once again, they often didn't all recollect this later when addressing the issues arising from the use of the aquifer. We also allowed generic explanations of how aquifers form.

This response did not score any marks.

(ii) Outline how the Ogallala aquifer was formed.

It was formed when to the west of the aquifer region, the Rocky mountains acted as a barrier, muoning that it became a rain shadow, so all the rain was stored rather than wosted.



This was a common error - confusing the reason for the current dryness of the region and its unusual rainfall distribution with the past climatic regime that gave rise to the aquifer.



Be careful over tenses - 'was' formed - not why it isn't recharged.

(2)

This response scored 2 marks.

(ii) Outline how the Ogallala aquifer was formed.

From the ice aug. when temperatures were with colder, ice Gornred underreath the ground. As temperatures increased, the ice Melbed to Gorn water that can is trapped in the Ox application auginagier.



Álthough the history here isn't quite right it does have a logic and grasps the significance of past climate.

Question 1 (b)

The description of a distribution is a very well signalled question and a fundamental geographical skill. There were very many excellent answers but sadly not all candidates were able to carry out this task; some practice in this area is highly recommended. The maps provided offered scale and compass points to help and most saw that there are very many settlements >20 000 in the east. A few referred to this as the 'right-hand side' and a worryingly large cohort described this as 'on the coast'. Some produced excellent answers referencing the unevenness of the distribution, its eastern dominance, the existence of anomalies and giving some data or detail to support.

This answer scored 3 marks.

(b) Study Figure 1a.

Describe the distribution of settlements in the Ogallala aquifer region.

Most settlements are occupying the lower parts of the region at 350m above sea level, so the amount of settlements decreases as the height increases with exception to clavis and Chevenne which are isolated higher up rearing 2,500 metres about sea level. The settlements are also trending to be closer to the motorways.



This is a good answer that adds some detail to a basic description and identifies particular places.



All maps offer scales and compass points - use them.

(3)

This response was awarded 2 marks.

(b) Study Figure 1a.

Describe the distribution of settlements in the Ogallala aquifer region.

The settlements in Ogallala agnifer region
seem to in the east part of it when
the height of the area is the lowest also
the sottlements are girl close to the
Motorways and there mish dot in the North-East
and South-East of the region



This is very much the same answer as in the previous example but without the local detail.



If you can identify places from a map to illustrate a point then do so.

Question (1) (c)

Success here largely depended on the correct interpretation of the command word 'Examine'. This required a description of the inverse and unusual relationship, with precipitation decreasing with height but also an explanation for that which, once again, was fairly explicit in the Resource Booklet. The vast majority of candidates recognised the relationship and many used data effectively to support their understanding. Sadly, a substantial minority stopped at this point and made no attempt to explain the relationship. These candidates who didn't go beyond description were self-limiting and too many fell short of what was designed to be a reasonably accessible 4 marks.

This response did not gain credit.

(c) Study Figures 1a and 1b.

Examine the relationship between height and precipitation in the Ogallala aquifer region.

The lowest height at the aquifer also has the lowest amount of precipitation.
The highest height at the aquifer however is not the point where the most precipitation falls. The payertical central line of the aquifer has the medium level of precipitation and medium height. Around the edge, precipitation level is low, but there are several different heights.



Å number of candidates found the maps difficult reflecting a general lack of map skills referred to elsewhere in this report. It is possible that this candidate wasn't using the correct resources.



(4)

All 4 marks were awarded for this response.

(c) Study Figures 1a and 1b.

Examine the relationship between height and precipitation in the Ogallala aquifer region.

Aren's which has a loss hight for around the years in (2,500 n) have the best son (500 n) have the best son (500 n) have high lovely of procipitation (800 nn). The general pattern of the hight / procipitation that is that the firster east you get therefore the bown by you get the form to may be from to the this six the booky possible to this six the booky possible to the most of the against the son in the booky possible to the most of the against the son in the booky possible to the most of the against the son in the booky possible to the most of the against the son in a wealth borris and leaving the against the son in a can shadden.



This is a good answer that uses data and detail from the map very effectively and includes an explanation.



Only a few command words are used in these examinations - make sure that you know them. 'Examine' calls for a description AND an explanation.

(4)

Question 1 (d)

The keyword in this question was 'dependent'. As the mark scheme suggests the key ideas here, in reality, are likely to be the possible alternatives available through higher rainfall and more available river water reducing dependency and the level of demand. But it is also possible to argue that dependency is also a function of an excess of water availability in the aquifer leading to greater use and so, arguably, higher dependency. It was at this stage that a lack of understanding of the whole nature of an aquifer and its role in a dry region was, for some, exposed.

This response scored 4 marks.

(d) Study Figures 1b and 1c.

ruigall, up to 800mm pyen

Suggest why some states in the region are more dependent on the Ogallala aquifer than others.

One reuse the set hope another of settlent carding 20,000 people for semple rebooks contin 7 settlents carding 20,000. This was that this state is now dependent in it requires a greater worself of people to support those which while contains a let or people seembly we dependent on the Ogalla againer because they have by raight. All of the Western Side has been shown as they have by raight. They need a constant writer supply which this againer gives then.



This is a very well structured answer. It makes two points and makes sure that they are identified - 'One reason...' and 'Secondly...' and draws a conclusion, 'Consequently...'. It also works on the data a little (e.g. it counts the number of 20000+ settlements in Nebraska).



If you can manipulate the data then do so - it shows that you understand it.

This response did not gain any credit.

(d) Study Figures 1b and 1c.

Suggest why some states in the region are more dependent on the Ogallala aquifer than others.

(4)

Some States in the region are more less economically developed than others. This is because means that some states in the region have to be more dependent on the Ogallala aquifer than more economically developed egions. They depend on it so that they can ensure that they will have enough water for living purposes:



There is nothing about varied states of development in the Resource Booklet and whilst there will be variation in GDP per capita across the region it isn't clear why this would affect aquifer dependency. It is possible that, in common with others, this candidate has lost sight of the USA as the setting for this question rather than an LEDC case-study that they have learned elsewhere in their studies.



Use the booklet - many of the answers are to be found there.

Question 1 (e)

The Resource Booklet identified the likely changes so it was left for the candidates to make the link with the aquifer. As with 1(d) this exposed some fairly fundamental misunderstandings of the nature of an aquifer with, for example, evaporation of the aquifer itself regarded as a risk of rising temperatures and, for some, a very uncertain chronology - with the Ice Age, in particular, proving to be a moveable feast.

(4)

- 4 marks were awarded for this answer.
 - (e) Explain how future climate change might affect the Ogallala aquifer.

The last of note in the aging will be divisioned because of reduced will income dense to the will income dense to the will be a second be displayed by the second be displayed assembled to the second be displayed assembled to the second be deserted by the second be deserted by the second beautiful to the second be deserted by the second beautiful to the second beau



This is a strong response which identifies an appropriate climate change and draws sensible inferences about aquifer usage before adding some detail about the time-scale. Oddly it omits to clarify that the changes in climate will also affect recharge rates because of lower rainfall but there is enough here for full marks.

This answer was awarded 1 mark.

(e) Explain how future climate change might affect the Ogallala aquifer. (4)water origunally velved WORL (Total for Question 1 = 19 marks) V WW It there **Examiner Comments Examiner Tip**

This response has a terribly muddled chronology and only gets around to linking climate with the aquifer in a meaningful way in the last sentence. In common with some other candidates they confused past climate with future climate.

Highlight keywords and phrases, 'future climate change' in this case.

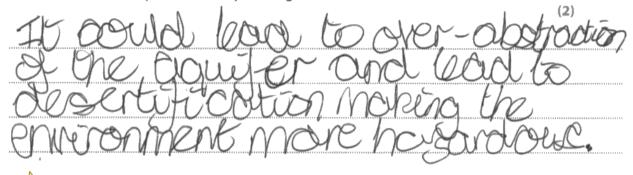
Question 2 (a)

Any environment was allowable but most candidates concentrated on the changed biotic landscape as crops are now grown where natural grasslands existed before. However, there were other routes to two marks including changes to the hydrology.

This answer scored 2 marks.

- 2 Study Section 2 (pages 5, 6, 7 and 8) in the Resource Booklet and answer the following questions.
 - (a) Study Figures 2a and 2b.

Outline one impact of centre-pivot irrigation on the environment of Nebraska.



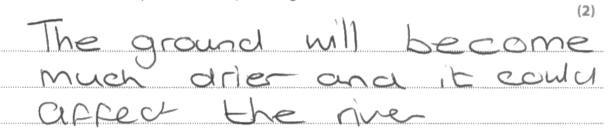


Despite the slightly uncomfortable phrasing evoking hazards there is an identifiable environmental change and a link to the irrigation systems.

No credit was given for this response.

- 2 Study Section 2 (pages 5, 6, 7 and 8) in the Resource Booklet and answer the following questions.
 - (a) Study Figures 2a and 2b.

Outline one impact of centre-pivot irrigation on the environment of Nebraska.





This could be rescued if it was made clearer how this would happen. How exactly would the river(s) be affected?



Read back your answers to make sure that they are comprehensible.

Question 2 (b)

As with Question 1 (b), this type of question is very well-known and certainly well signalled in both the Sample Assessment Materials and the 2014 paper. It is thus a little surprising that some candidates seemed very unconfident when reading data especially when presented as divided bar graphs, such as this one. Too many were disinclined to describe trends and changes preferring to present the figures and allow the reader to work out what the changes might be. So, rarely for GCSE students, it is a question of too much data and too little analysis of that data.

All 4 marks were awarded for this response.

(b) Study Figure 2c.

Describe the changes in the use of corn between 2001 and 2011.

in 2001 most common used ous

control seed ground 1, 11-1.5 solution

tonnes used for it in 2011 only

1-1.1 billion tommer's being weed

for that most now is being weed

for ethanol around 1:3 to wich

tonnes and around 1:3 to wich

tonnes is Deing ex porteol composed

to 2001 0.5 pillion which was higher

thom 2011. Through out those to years

the used of it did furwate.

ResultsPlus

Examiner Comments

This is a strong answer with lots of data supporting points that relate to changes as requested. It addresses general trends but also spots fluctuations in those trends.



There are a number of 'problem' words in these skills questions - this one is 'changes' - make sure that you know them and spot them.

The centre pivet setates over a large place meaning that

(b) Study Figure 2c. plants and animals will be killed they have also taken up heetares or land whith will destroy a large amount of them Describe the changes in the use of corn between 2001 and 2011.

(4)

From 2001 and 2011 corn is being used more for ethanel full due the for the increase in demand.

Corn is also being used less in animal teeding because its est being used for Ethenel fuel and Exporting it to methy make money



This type of question will always require use of specific data from the resource. Non-numerate candidates need to be reminded to use that data.



If you have figures available then use them - remember that you cannot lose marks so don't be frightened to make mistakes.

Question 2 (c)

There were some very good answers to this question which showed a sensitive understanding of just how profound the changes have been and were able to gather supporting evidence from the booklet and their own understanding of economic geography. The least visited area was the growth of industries based on the growing of industrial crops; an idea that had been sown in the previous question and elsewhere in the booklet. It was also an obvious opportunity for candidates to exploit their understanding of concepts such as the multiplier, which a few managed to do very successfully.

1 mark was awarded here.

(c) Explain the impact of irrigation on the economy of the region.	
	(4)
the economy largerly depends on irrigation as d	! !
brings in \$20 billion a year, this is ma	inly
through the exports from states, meaning	~ 1
everyone benefits. The government heavily	
subsider much of the agricultural	
production, therefore it is trust to b	re
wed sustainable and correctly to being	
Around 1.9 million people depend	
therefore greater profits - in the eye of	
profit seeking government - are incoming	
which can also help with the fur	ther
production of the squiger or used eller	
d //	

Results lus Examiner Comments

This answer is typical of those candidates who haven't really absorbed the information available in the booklet, perhaps reading it as they go along and rather superficially at that, and thus offer some speculative comments instead with only a very partial use of offered information.



Read the booklet before you start answering questions to get an overview of the issues. This answer was awarded all 4 marks.

(c) Explain the impact of irrigation on the economy of the region.

(4)

Evisitly arrigation has allowed apoble forming to expected. New irrigation bechnologies have allowed crops to be grown to produce profit, generaling around 20 billion USD every year. Because crops can now be grown on a commercial level, irrigation has lead to the increase of ethanol (a bioquel).

As shown in Figure 20 production. This creates more jobs in the former renewable energy sector as well as an irreposed in corsess in corsess which becomes from the former formers. More jobs and increased revenus means the government calleds more trease therefore growing the coronery of the region.



Examiner Comments

This is a strong response from a candidate who appreciates that one thing might lead to another - in this case ethanol production.

No credit was gained for this response.



There are some useful ideas for almost any conceivable decision making paper - the multiplier is one of those.

(c) Explain the impact of irrigation on the economy of the region.

(4)

The resion where the irrisation tomes

place is not sood looking com se

an exesor to some. It may be load

leading to noise pollution each causing

a bis disturbence. They also my begin

to use to mad water and it

Stalls to can but quelly quickly



This is a simple enough confusion between economy and environment.



Make sure that you know your basic terms - economic, social, political and environmental causes and consequences - what are they?

Question 2 (d)

Sustainability is at the core of this unit including the very many different interpretations and issues surrounding the concept. Candidates were obliged to apply their understanding of this idea in a wholly new context but they had a good deal of information available to them to help in that process. By far the most popular choice was 'sustainable' and this was often supported with a sophisticated understanding of the need for careful conservation to ensure the long-term survival of this resource. However, there were other answers which made a decent case for the two alternatives.

6 marks were awarded for the following response.

*(d) Resources are defined as renewable, sustainable or non-renewable.

Which type of resource is the water in the Ogallala aquifer?

Explain your choice.

	Explain your	choice.				(6)
		Custon	Щ.			(0)
1	1 1	urce Sustain		***************************************	1	1
\ \	1				see that	the hoter
from	she	Ogalla a	quirie u	Sugainable	for a no	umbe of reasons.
A	Sastainable	resource	'u m	e than	if morage)	and muitained
correcti	yı ü	will not	th run	out on	ù will	be to
rai lass	1	1 1	in the	Julie .	***************************************	133337777444444113337777744444
I	am of	the opinion	- hat	chis resound	e 'u Sustain	Mi berause
1/2	the re	Soune su				n such a hay
chas	ŭ is	currently of			resource in	
arai lal	de for	use. Mach		hood from		sanahly resource),
as lo	my as	the hater		is extrauted	ſ	re a south rate,
over	tirt ä	s I		Alchough	· raisall =	chis region is
dedi	_		***************************************	1	**************************************	() () () () () () () () () ()
Alphou	ey min	all a de	s region	is dedicas	, meaning that	Le hate siglies
6 6	Δ	ifie will	-	1	rep Lawshed as	
betieve	1	! \	iamp team is	moraged, the	***************************************	ill rue no out.
_ +				Erawk (Total	hute, 🥟 દ for Question 2 :	the region will not
	loc of 10-			300 fain	No.	recentle ; cor no he
14	- Parelle			As long	on it is population to consider promated time	and a stone council , must be used specially.
				a will	and a mi	HER CLIM
				DE COURTE D	he anilable percente	
					a she	the deeping, were supplied
					deverine	



This is a strong answer but the candidate might have paid elsewhere for their rather convoluted writing style which might have made time short. This long answer could be trimmed by taking out the first sentence which is a truism and cutting the wordy 'I am of the opinion..' and a number of other redundant phrases. It's a good answer but could be much more succinct.



Don't repeat questions in answers - you might run out of time!

(6)

This answer was awarded 4 marks.

*(d) Resources are defined as renewable, sustainable or non-renewable.

Which type of resource is the water in the Ogallala aquifer?

Explain your choice.

Type of resource Systainable.

It is suspainable because of it is an used and exploited it will run out. Honers, as long as the automatic sed is contralised, then it can be used custainably. It is not constantly being refilled, it could be considered remorable.

It also is not non-renewable because the water never disappears, and therefore amost be someway. While he squifer it take can be refilled, it can take a long time tarbour 600.

Results lus
Examiner Comments

This is a typical mid-level response that gets into a bit of a muddle about recharging - 'the water never disappears'.

Question 3

This question stimulated some excellent answers in which candidates could show off their understanding of the complexity of the responses to the transformation of the region by irrigation. The most interesting and most highly rewarded answers came from those candidates who appreciated that self-interest might play a major part as would belief systems. Most concentrated on the varied economic motives and rather marginalised faith whether it be the 'environmentalist' or indeed the particular version of Christianity offered here.

The following is a Level 3 response.

*3 Study Section 3 (page 9) in the Resource Booklet.

Explain why the attitudes expressed vary so greatly.

t people have duf as it is important for me 2100 compares mably. (Total for Question 3 = 6 marks) local who doesn't senit

ResultsPlus

Examiner Comments

There are two different ideas here with just a hint of a third. Economic motives and geographic location are covered although the link with employment could be stronger. Some 'use the aquifer' more than others would be stronger if it became 'some jobs rely on the aquifer more than others'. Belief systems creep in with 'she is an environmentalist'.



In these longer answers look to make at least two developed points with evidence offered.

This is also a Level 3 answer.

*3 Study Section 3 (page 9) in the Resource Booklet.

Explain why the attitudes expressed vary so greatly.

People have un different view of what blooded be done
because of the relationship they have with the agrite.
Clark is a business man and so be will benefit divilly from
the aguile became it makes a let of morey for the
economy, theefor he will want it to continue. This is the
sure self with Jolene. She notes on a feedlot which is
ugglied with can from the inregisters yeter win water
from the agrife. If we styped using the agrife for
mus, can and feeding cattle. Ideas wouldn't have a
job and wouldn't be able to provide for herelf or
her family. There see also kenefits dicitly from the
aguifu and to will want it to they gen and manis.
Henew Nancy is more detected - the is only reign the
destruction destruction the feedlet are causes to the Earth,
henew the is not affecting by dwelly as is the dreat
coe if the aguife is clear because in he eyes it is
a prilin becam it is sain the (Total for Question 3 = 6 marks)
enunoniment. Religion also can have an affect on peoples decision
as Idem thinks because God gase human domencia, ne
un do whaten we want to the north of The decision
as morely leased on how they all benefit the enduredical as
also whether it is an economic kenefit (Clede), an will kenef
(I dene and Wayne) or an enumormental kenifit (Nancy)



This is a more sophisticated response than the other exemplar used. It makes a very strong link with economic self-interest but also addresses belief systems well. Wayne's more ambivalent relationship with the aquifer is the only real omission.



Try to make your opening sentence eyecatching by making a clear statement.

Question 4

With a tariff of 9 marks to which the possible 3 marks of SPaG could be added this final question carried a little under a quarter of the total marks available. Thus it was very pleasing that so many centres had obviously trained candidates well in making sure that they at least allowed enough time to answer it.

There were many fewer incomplete responses or even answers that showed signs of having been rushed.

It was also gratifying that most candidates responded to the command word 'justify' admirably so even when their actual logic let them down, they did at least give it a go in covering the weaknesses of the other options. Perhaps the weakest element in most responses was a tendency to pay too little attention to the 'people of the USA' and the 'environment of the Ogallala region'. Most wrote generally about the economy and the environment rather than exploring the possible tensions between national and local interests as well as the tensions between environmental sustainability and economic sustainability.

There are clear opportunities to practice these skills as Units 1 and 2 are delivered - helping students become familiar with the unevenness of positive and negative impacts both spatially and temporally. Occasional 'mini' exercises might help reinforce the need for clear deconstruction of this type of question. Conceptually the vast majority of 16-year-olds have no difficulty at all with the idea of uneven impacts but they can lose their nerve when trying to express it – it is in this area that most practice is needed.

Spelling, punctuation and grammar will be assessed in your answer to this question.

*4 Study the three options for the United States government shown below.

Option 1: Encourage further development of intensive agriculture in the Ogallala aquifer region.

Option 2: Prevent any further development of intensive agriculture in the Ogallala aquifer region.



Option 3: Replace intensive methods of agriculture with more traditional approaches such as cattle ranching in the Ogallala aquifer region.



Select **one** option you think would be the best for both the **people** of the USA and the **environment** of the **Ogallala region**.

Justify your choice.

Use information from the Resource Booklet and your knowledge from Units 1 and 2 to support your answer.

(9)

I have choosen option 3 because I think this is the only option which benefits both the people and the environment. From Figure 2a you can see that it is the agriculture which is using the most of the aquifer and affecting the environment the most This is due to the centre-Pivot Irrigation because the vibration unsettle the habitars around the area causing animals to migrate leaving

a less biodiverse area. Therefore this is why option 1 is not as beneficial because it will disturb the environment even more than it aiready is. By replacing the intensive agriculture with more traditional methods will mean that the economy will not be affected as much because the food industry will not be changed. This is why I have not choosen option 2 because if the expression agriculture is stopped au together there is a huge risk the economy will completly collapse because This will affect the people in the region because many of them could lose their jobs. This is why people like clark is totally against option 2 because he is worried for his job. Although option I will benefit the economy and the people and option 2 only benefits the environment. Option 3 benefits both of these things This is because as we can see from figure 2a Cattle ranching doesn't use as

much space compared to agriculture therefore it is also not disturbing the environment as much as the agriculture does cartle ranching also benefits the people in the region of the aquifer because it has many job opportunities and allows the economy to stay stable. The cattle ranching and other more traditional methods use the aquifer less this means that it is more sustainable.



This mid-level response was typical of those who hadn't really grasped just how significant the change in land-use was and how the region had been transformed. There is also real confusion about the impact of adopting Option 3 which is seen by this candidate as delivering less change than Option 2. The candidate does try to justify their choice which is enough to raise this answer into the mid-band.



Write a quick plan to make sure that you cover all the key points.

Spelling, punctuation and grammar will be assessed in your answer to this question.

*4 Study the three options for the United States government shown below.

Option 1: Encourage further development of intensive agriculture in the Ogallala aquifer region.

Option 2: Prevent any further development of intensive agriculture in the Ogallala aquifer region.

Option 3: Replace intensive methods of agriculture with more traditional approaches such as cattle ranching in the Ogallala aquifer region.

Select **one** option you think would be the best for both the **people** of the USA and the environment of the Ogallala region.

Justify your choice.

Use information from the Resource Booklet and your knowledge from Units 1 and 2 to support your answer.

(9)

Chosen option I have chosen got on 3, to replace intervice methods of agriculture with more traditional approaches such as cattle propring in the Ogomana aquier region. Che reason/beoaux of \$ 12 will berefit Local purches more, instead of big corporation. Like way to raid in Section 3, Rancher ... and Low people don't bencht let au. This is because the parbig compositions, which could be TNC's will spread their produce soo mationally and would wide. This means trav De local people who live in the aquife- area benefiting from It's UR. Also smore benefit is trust the traditional morning doerne take ar much water from the ravier. Shown in Gigure 22, the Wighton for intensive agriculture will take most water from

not just the Baufer water underground, but the from the Hardre underground areas hearpy. Flowerer Parching will only need water Boo for drinking use, from extraction extracting a Small amount or from laker and nier meany. Anone Advantage it the land wont be wheat from the feedlots. These are malive eye sore's and are not good for the enchanner to 2 O = Of COWT are pot into one I mall space. This means that A lot Of water all be timen from the house is that region, peting pressure on it. However, a dimanutage is com through Using the agrifer can provide a lot of people with Asod. 25 million tonner or corn wald feed loo million people for 21 years which is a type amount. [didn't choose gos'an I because 2/mongh, agriculture creater 2 LOT OF morey, \$20 billion & year, It it extremely load for the environment. For example the Perbiliferr wed during Intensive agricultie, can cause eutriphication. This is were the ferriter nitrater though the the ground and throughflow into the niver creating Ngae blooms and Ropping Enlight for proporgations, reasing the oxygen in the (Mute. Also the migration uses a 10t-of the water from the ravifer union ward cause it to I him were away, feen in figure 22, it doern't just use wester from directly under the bud but in a lot of the area suprounding. If it Used up 2 lot of the water in the Rquite /7 could Cause senous problems, ander to climate change, the ainfall will decrease, leaving very dry wrear aith

no water sipply. I didn't choose poin 2 because 210 ough it wouldbe good for the encironment, belowse of letting it recover, It would take a long type to recover, meaning near generating possession it wald take many generations Por people to benefit, at it taker 60 of years to recomme completely. A lot of Good it also produced using the impassion. 20% of com is produced for the to tru Us production, for the population. Cuth a pilling population in the Us, the production Will need to increase too. If it does to those then, like Maltons' New, the W Could reach a crisis paint were there Is it enough food to feed everyone. Thit Gould Cause miger poverty and a large number of deaths due not being fed enough. It could W/o cause nepricer to increase which will mean ory many de tour prid people nont be uble to afford to eat. It may allo mean that more food needs to be imported, investing the country teo footprint and & causing more pay pollution through food tanport. However it used mean the environment Wald LOOK NOTE and not be nived by feedlots, and it walk reduce tappo right blooms creating a health e wave sppy I did not choose This, however because it wald not be

Sustainable socialing of economically.

In conclusion I brink amust my got on wall

arau 6 e the most sustainable, but sknow that

it does have some problems as none or the

gotons wand be perfect. My got on asso

helps more local people, more knowing is

be socially sustainable, taking a more

bottom-pp development approach.



This is a very strong top level response from a candidate who knows how to structure such an answer. One of its most obvious characteristics is the use of argument and counter-argument which culminates in a final paragraph which concludes that no option is beneficial to everyone - in other words it is a compromise. The references to the Resource Booklet are also notable.



Remember that all policy decisions are likely to have winners and losers so there will always be a debate.

Paper Summary

The Making Geographical Decisions paper has a clear and predictable structure and a reasonably predictable set of questions. Of course there are nuanced differences in each paper and candidates need to be more than usually alert to those differences – the little words including trends, pattern, changes and distribution are vital. So too are the command words. The final question will not be a 'write all you know' about this issue challenge but will focus on making a case, defending it but also presenting the weaknesses of the chosen option as well as the alternatives. That skill is improving whereas other skills are not. Ironically map skills, in our satnav world, are withering on the vine whilst interpretation of photographs is also poor, rather more surprising given Snapchat and Instagram. The photographs in this Resource Booklet were largely ignored.

Geographical skills are highly valued and when well-developed they are powerful and adaptable tools for interpreting spatial variation. Whatever the context of the Making Geographical Decisions paper it is these skills that are being tested and not, of course, casestudy knowledge and understanding which are addressed elsewhere in the specification. We all need to work on these skills with our students.

Grade Boundaries

Grade boundaries for this, and all other papers, can be found on the website on this link: http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx





