

International Advanced Level Geography

Unit 2 WGE02 – Section B
Geographical Investigations
Exemplar scripts with examiner commentaries

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Introduction

This guide has been created using student responses to the 2017 International A Level Unit 2 (WGEO/02). The answers and examiner commentaries in this guide can be used to show the standards in the IAL Geography assessment.

Unit 2, Geographical Investigations, takes a closer look at how physical and human issues influence lives and can be managed, at a local scale. There are two compulsory topics:

- 1) Topic 1: Crowded Coasts
- 2) Topic 2: Urban Problems, Planning and Regeneration.

The paper is divided into three distinct sections.

Both topics are covered in Section A* of the paper which is data response and a mixture of short-answer and longer-answer questions (maximum of 8 marks).

Section B is comprised of compulsory short-answer questions on research and the "familiar" (i.e. students own) fieldwork investigation. The maximum tariff question in this section is 12.

Section C* offers a choice of one fieldwork question, on either Crowded Coasts or Urban Problems, Planning and Regeneration. This is set in an "unfamiliar context", i.e. resources provided for the candidate to interpret and utilise. This typically has a mixture of 2-4 marks questions.

Questions 1 and 2 test a mixture of AO1 and AO2 skills, whereas question 3 (compulsory), 4 (option 1) and 5 (Option 2) are based largely on fieldwork which is examined as an AO3 skill. AOs are explained more fully in the specification (page 57) along with their breakdowns across units.

Paper 1 is worth 40% of the IAS total marks and 20% of the IAL total marks. The examination is 1 hour and 30 minutes and totals 60 marks.

Our command words are defined in our specification, please see page 95, and will remain the same for the lifetime of the specification. Questions will only ever use a single command word and command words are used consistently across question types and mark tariffs.

This document should be used alongside other IAL Geography teaching and learning materials available on the website here">here.

The May/June 2017 WGE02 question paper, mark scheme and examiner report is here.

^{*}Section A is in another document

^{*}Section C is in another document

Exemplar scripts Section B

Question 3a

Explain how you managed one risk associated with your fieldwork investigation. (2)

Number		
Number 3(a)	NB: the aim / question / hypothesis provides a context for the investigation and the subsequent parts that follow – no credit for this. Award 1 mark for explaining the hazard / risk and a further mark for explaining how the risk is managed, up to a maximum of 2 marks. In urban areas there is a lot of traffic so high risk of being struck by a vehicle (1) which was managed by only using a designed crossing (1). Fieldwork was carried out in winter so there was a small risk of hypothermia (1) so lots of warm clothes were used (1). The wet rocks at the coast presented a slip and trip risk (1) so walking boots were used to minimise the risk of falling over (1). Risk of collecting bias / unreliable data leading to invalid results (1) which could be managed by careful site selection / sample size / design (1). Nature of risk, and risk management will vary depending on the location as well as the context	2

State the title or question of your fieldwork investigation:
To assess the extent of regeneration
taking place in Doha.
(a) Explain how you managed one risk associated with your fieldwork investigation.
One risk of our thriestigation was being aware of
the flowing traffic when conducting our fieldwork
therefore we stayed together in groups wearing
school teac t-shirts being easily visible.
State the title or question of your fieldwork investigation: To Investigate the human and physical factors affecting biodiversity in the manytove swamp The many sales applying In Al Khar (a) Explain how you managed one risk associated with your fieldwork investigation.
There was a risk that we could get our place feet out on the
plants in the Manyson Schemp So we work appropriate Footwork like
trainers or welking shoes to Stop tech from happening

Mark/level awarded: 2

Examiner commentary: The answers identify the risk in each case, and then go on to develop their explanations about how that particular risk could be managed.

State the title or question of your fieldwork investigation:	
Effects on constell ecosystems from constelled	
in Unavioluna beach, sa Lanka	
(a) Explain how you managed one risk associated with your fieldwork investigation. (2)	
Ensuring that the sampling method did not i	oclede
bies by earling out render sempling	

Mark/level awarded: 1

Examiner commentary: An unusual interpretation of "risk", i.e. risk to the fieldwork being unreliable, but in this context it was allowable. There is no 2^{nd} mark since the sampling idea was not developed.

Question 3b

Explain how you used two qualitative techniques as part of your primary data collection. (4)

Question Number	Answer	Mark
3(b)	AWard 1 mark for explaining a valid type of qualitative data and a further expansion mark up to a maximum of 2 marks each. Nature of qualitative techniques utilised will vary depending on the location as well as the context of the investigation. • Interview data from a number of respondents were used (1) to find out about attitudes towards rebranding in the city (1) • Questionnaires (open questions) used to gauge opinions from stakeholders (1) such as impacts of change (1) • Field sketches were undertaken (1) to give an accurate representation of the landscape to help with later analysis (1)	4

Digital photographs were taken of the fieldwork equipment (1) so that this could be later used to help evaluate the methods and their reliability (1).

Field notes recorded aspects of the site location and a description (1). This helped with the analysis and follow-up to link together understanding of geographical processes in the area.

Allow questionnaires as a semi-qualitative technique (open questions).

These were used to identify and get an oral opinion on the traffic and congestion situation of the areas we observed.

Reo The candidates also gave opinions on local transport policies.

Questionnaires

These gave a the candidates in our sample to further highlight or touch upon the solutions which they have seen and any cost involved.

Mark/level awarded: 3

Examiner commentary: The first part, about structured interviews, is given 2 marks, but the second part on questionnaires only 1 mark. There isn't enough detail, nor is it clear enough that this questionnaire is explicitly qualitative, rather than quantitative.

1 Our investigation was also based on the nature of
the data, Ovalitative and Ovantifative data which
included a Ovalitative techniques we used as a part
of our collection was through the presentation of Surveys
2 presentations, Overstonaives. We also had a hotel
want shop count, and tourism count as well
included in our collection.

Mark/level awarded: 0

Examiner commentary: This is an explain question, so there can be no marks for simply naming or listing techniques as is evidence in this answer.

Question 3c

Explain how you used secondary data to support your fieldwork investigation (6)

Questio n	Answer		
number			
3(c)	AO3 (6 marks)		
	Marking instructions		
	Markers must apply the descriptors in line with the general marking guidance and the qualities outlined in the levels-based mark scheme below.		
	Indicative content guidance		
	Content depends on students' choice of research question. Secondary data includes the following ideas:		
	 Used to find out more about the population / people of an area, e.g. local census statistics. 		
	 Assisted in design of sampling framework: number of sites, spacing, sample sizes, sampling method, plus methodology: equipment, operator error etc 		
	 Secondary data was used to contextualise and challenge primary fieldwork data 		
	 Secondary data can be used to give baseline data, e.g. to work out rates of coastal recession using GIS and historical maps 		
	 Secondary data could provide opinions from a range of online and other sources to provide textural context. 		
	 Secondary information was used to provide quantitative data for statistical analysis, e.g. the calculation of median deprivation indices for contrasting local areas 		
	Nature of responses will be heavily dependent on the context of the fieldwork and the environment in which it was undertaken. However, examiners should reward for detailed clear and specific data and information which are supported with depth and detail in terms of factual accuracy and realism.		

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-2	 Limited understanding of the relationships between geographical questions and the background information, geographical context and research question (AO3) Uses a limited range of fieldwork research skills and techniques to obtain information that may link to, but not support, the investigation of the research question. (AO3) Limited evidence of an ability to draw conclusions and the evaluation is simplistic, limited to one stage in the route to enquiry. (AO3)
Level 2	3-4	 Some understanding of the relationship between the background information, geographical context and research question (AO3) Uses some fieldwork research skills and techniques to obtain information that may link to, but not support, the investigation of the research question. (AO3) Some evidence of an ability to draw conclusions and the evaluation is relevant, but restricted to one or two stages in the route to enquiry. (AO3)
Level 3	5-6	 A full understanding of the relationship between the background information, geographical context and research question (AO3) Evaluates fieldwork research skills and techniques to obtain information that may link to, but not support, the investigation of the research question. (AO3) Clear evidence of an ability to draw conclusions and the evaluation is full, across a number of stages in the route to enquiry. (AO3)

we gathered secondary data from old photographs (e.g. of the Dona skyline) to from years 1940 onwards to visually look at how much regeneration has taken place in Doha. we looked at the News and read articles from the Key players of regeneration such as the Emir, the Royal family, the Ministry of Interior and construction companies to provide us such as the no of houses being built in the great Dona information of on events of regeneration, and their views on how to regenerate Doha. We also watched TED talks which told us that Dona want to regenerate itself as a city culture while developing sustainably. The developments of popine, and the new project, 'Downtown Doha' shown us that Doha is already rebranding Aspetar being agene the Aspire and facilities in the world Downtown Doha's class through solar panels which will be supplied energy way as renewable energy is being used. sustainable Qatar living looked at Blogs such as ms information on the events occurring in Do. The Colour run, and events in the soung for provide Qatar This proved that Doha has day. rebranding itself as of sport and a city succesful**s** culture

Mark/level awarded: 6

Examiner commentary: A maximum score on this response. Level 3 with detailed clear and specific data and information which are supported with depth and detail in terms of factual accuracy and realism. There is a really good range of ideas presented here, and does enough on the "how", i.e. explanation, to secure 6 marks. Examples of explanation included, "...to provide us information on events of regeneration", "....the new project Downtown Doha has shown us that it is already rebranding", "...watched TED Talks that told us....".

secondary data is data that we did not coloct overselve but that had already became collected. Firstly we used old and new government data so that we could compare the amount of people, both citizes of cypre and tourists, who wished the city of Micosia before and after regeneration took place. We coolised that after regeneration took place the amount of people that had visited had rexe significantly. Secondly, with the use of 615, google maps, and the time slides addaptation we could see what one 4 sites booked to your ago before regeneration and look to see what one tay looked now. This helped is visually compare the sites and further our opinion on regeneration and its efects. Thirdly, we used exhock of interviews from the (years Mail), the local manspaper, so that we could understand the local apinion of people and how their experienced regeneration both positionly and regationly. This helped further our understanding of the herelopments baking than

Mark/level awarded: 6

Examiner commentary: Another maximum score on this response, but this candidate provides a better explanation of how secondary data is utilised. In comparison with the previous example, there are less convincing details of the actual secondary data (more detail required). Nevertheless, Examiners agree it was worthy of the maximum 6 marks.

Ne used Secondary data to further develop our knowledge to help us prove or disprove our aim. We used Youthbe, magazines, local newspapers and Government data to provide us with more geographical knowledge to use during our fieldwork. After we collected our primary data we used the secondary data to collate and compare the data highlighting our anomalies and correct data. Our primary data was more trustworthy than the secondary data as we don't know where the secondary data came from, it could have been bias and human sampling and equipment errors could have provided false information. Nevertheless, the use of secondary data to support our fieldwork investigation was used to provide more accurate data to provide or disprove decline our aim.

Mark/level awarded: 3

Examiner commentary: A Level 2 response which tends to be generalised in its explanation of secondary data, with limited specific information and examples. There is some information of how secondary data is used in the investigation, but this tends to be partial rather than developed for Level 3. For example, the comment, "YouTube, magazines, local newspapers" is quite generalised. They would have been better naming specific video or newspapers to give more specific detail.

Question 3d

Evaluate the success of your primary fieldwork design and data collection methods (12)

Questio n number	Answer
3(d)	A03 (12 marks)
	Marking instructions

Markers must apply the descriptors in line with the general marking guidance and the qualities outlined in the levels-based mark scheme below.

Indicative content guidance

Content depends on students' choice of research question. Evaluation should include some the following:

- The nature of initial research to inform the context of the enquiry as well as the identification of an appropriate topic to study through the route to enquiry
- Design of sampling framework: number of sites, spacing, sample sizes, sampling method – linked to specific methods of data collection
- Methodologies: these will depend on specific methods chosen but can include evaluation of the equipment used, operator error; success of recording sheets / tallies
- Inaccessibility of sites / lack of ability collect data due to time of day, seasons, or unanticipated hazards such as bad weather

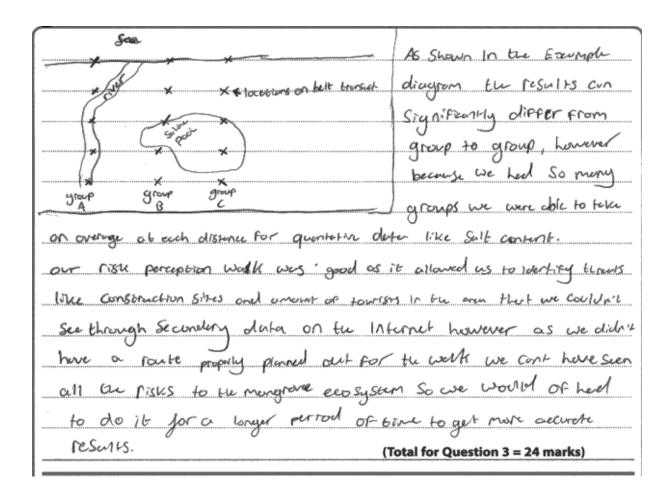
•

- Ethical issues could be considered e.g. appropriateness of questionnaire questions
- This impacts on both the range and quality of data and in turn has effects upon the accuracy of the results and the validity of conclusions
- Appropriate data analysis and whether the data collected could be easily collated and analysed, or was generated in a form that made this stage problematic.
- Conclusions could be referred to if data collection yielded unusual / unexpected / anomalous results which affected the reliability / validity of conclusions.

Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-4	 Limited understanding of the relationships between geographical questions and the background information, geographical context and research question (AO3) Uses a limited range of fieldwork research skills and techniques to obtain information that may link to, but not support, the investigation of the research question. (AO3) Limited interpretation, analysis based on the data / information collected. (AO3)

Level	Mark	Descriptor
		Limited evidence of an ability to draw conclusions and the evaluation is simplistic, limited to one stage in the route to enquiry. (A03)
Level 2	5-8	 Some understanding of the relationship between the background information, geographical context and research question (AO3) Uses some fieldwork research skills and techniques to obtain information that may link to, but not support, the investigation of the research question. (AO3) Interpretation and analysis based on the data / information collected form part of the response(AO3) Some evidence of an ability to draw conclusions and the evaluation is relevant, but restricted to one or two stages in the route to enquiry. (AO3)
Level 3	9-12	 A full understanding of the relationship between the background information, geographical context and research question (AO3) Evaluates fieldwork research skills and techniques to obtain information that may link to, but not support, the investigation of the research question. (AO3) Critically considers the role of interpretation, analysis based on the data / information collected. (AO3) Clear evidence of an ability to draw conclusions and the evaluation is full, across a number of stages in the route to enquiry. (AO3)

To collect data for our field work we used an interapted be It fromseut Stopping every 20 meters for 300 meters through the Mengrove Swemp and at each or our 15 locations we used a Sulinity probe to measure Selt content on the water, the depth of the water, the percentage of our off quadrat that was covered in Alaum Flore and found and be type of flower and Found Found. This helped us gother a lot of quantitive data for our investigation which is good because quantitive data can be easily graphed. However there were some claws with our data collection. although we did a Spermens perh on our deba and deducted that it was 95% accurate If we were to of Stoped every lometers instead of 20 meters We would have gotten more accurate results. As usell as that calculating the percentage cover or people and favore was not 100% accorde as it was Just an estimate if we were to measure it property that suppresuits would be more accurate. As well as that the threas in which each group did their sampling wasn't the sine as some groups had more locations Within the very Soline pool at the back of the mangray and others only had one or two, the Some groups also had multiple readings within a river that wear't very some because it was flowing while other groups had no selles locations in the river to deck so every groups results were considerably diffrent This is shown by the diagram on the next page showing how different the points taken could have been for the Some groups.



Mark/level awarded: 10

Examiner commentary: This is the longest response on this exam paper at 12 marks, and this candidate provided a solid Level 3 answer. It has the right focus on the correct part of the investigation (i.e. design and methodology). It uses convincing comparisons and also has place specific information which all supports the focus. In order to get 11 or 12 marks, examiners commented that the evaluation would need to have more on the "success" elements. For example, the response may have included ideas about how different readings (and perhaps anomalies) in the river data affected reliability, which ultimately influenced the success of the investigation.

It might be worth reminding candidates that success of data collection process is not necessarily that it supports the hypothesis; the hypothesis may have been incorrect to start with and so successful data collection might allow rejection of the initial hypothesis and the development of a new and better one.

The initial aim of our investigation was to identify and see "How transport and congestion problems been solved in urban areas? Our initial hypothesis was that transport problems have not been solved in the area we selected. The sample site we selected was the Southern Expressionay Which is close to the city of Galle and was a rather Spatial area. We opted to use qualitative methods such as questionnaires and structured oral interviews and corried out random sampling as this reduced biasness. Our sample Size Was 7 people with a range of between 15-60 years and a mean age of 36 years. Even though it was a spatial area; it had a low population density at the time of our investigation; as this reduced the reliability of our experiment to an extent. Through our questionnaires and structured interviews, we were able to yield a variety of different anywers. Firstly over 60% of the sample Stated that the construction of the expression has aided in reducing the journey times for commuters from Galle to Colombo and vice versa which means that they are able to avoid congestion and bottle necks and get to work faster. Secondly, many people said that the roads were now much more smoother and comfortable than it was before and this has improved the whole experience of the journey, Almost 58% of the Sample stated that the construction of the expressival has had a positive effect on tourism as this expression links

Cities like Galle and Matara in the South Straight to the airport. This has improved the GDP of the country to a certain extent and aided cities and unban areas both in the South and West to grow.

However, over 67:1. Stated that this project was too costly and the government needs to invest in other forms of infrastructure. Throug We analysed our primary data by plotting pie charts and carrying out a Chi-Squared technique Which showed that our observed outcomes & did not entirely coincide with the expected outcomes which may have been due to the lack of Sample Size. Thus in conclusion we can state that through this primary research and data collection; our hypothesis was disproved and problems in these (Total for Question 3 = 24 marks)

a certain extent in terms of traffic and congestion.

Mark/level awarded: 8

Examiner commentary: This style of response was found to be typical in this part of the exam where candidates lack the ability to select the correct focus for the question in terms of which part of the enquiry pathway should be evaluated. The response provides detailed information about the results for example on the first page which are not relevant to the design or methodology. It is only the last paragraph which gives evaluative comments in relation to the fieldwork and outcomes. The information is simply too buried within lots of other less relevant writing.