



General Certificate of Education

General Studies 5766

Specification B

GSB3 Space

Mark Scheme

2008 examination - January series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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Unit 3**(GSB3 Space)**

- 1 Answers given in the mark scheme are not necessarily definitive. Other valid points must be credited, even if they do not appear in the mark scheme.

Total for this paper: 60 marks

Look carefully at **Sources 1, 2, 3** and **4**.

Source 1 shows the International Passenger Survey for 1998 to 2006.

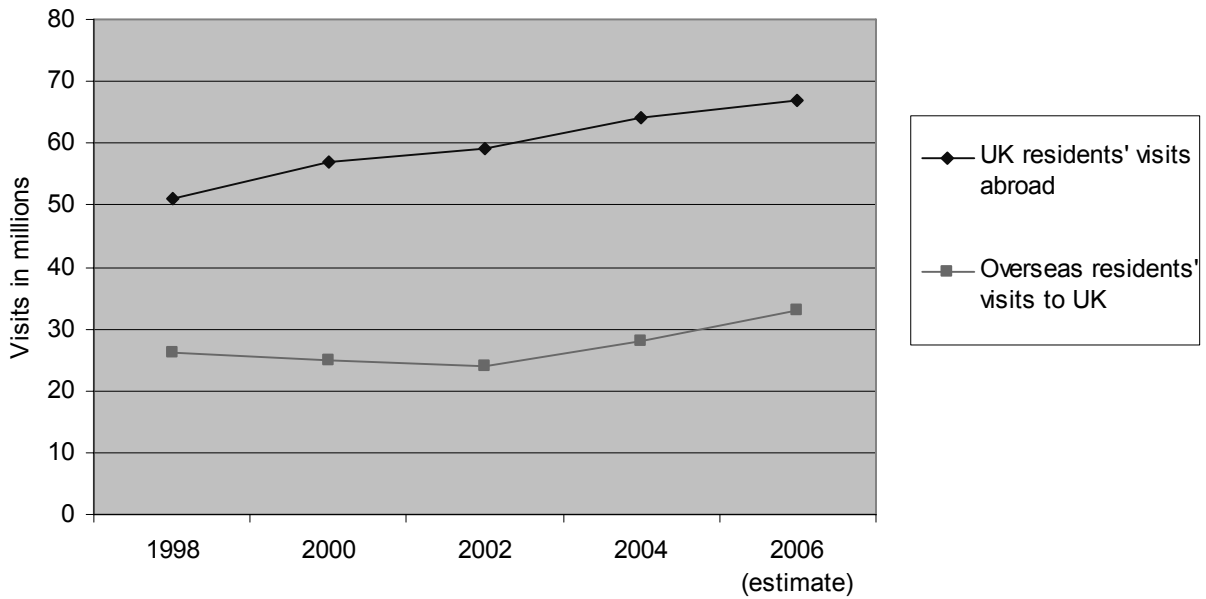
Source 2 shows noise complaints received by Environmental Health Officers for 2001 to 2004.

Source 3 shows passengers, area and population affected by noise around selected UK airports in 2004.

Source 4 shows a web page from 'climatecare', July 2006.

- (a) Using **Source 1** construct a line graph as follows:
- (i) draw **one** line showing the UK residents' visits abroad from 1998 to 2006
 - (ii) and on the same graph, a second line, showing the overseas residents' visits to the UK for the same period. (6 marks)
- (b) Suggest possible reasons for the increasing trend of UK residents' visits overseas. (6 marks)
- (c) (i) In 2004 what percentage of the total amount of noise complaints received was about domestic premises? (**Source 2**) (2 marks)
- (ii) What was the percentage increase for the noise complaints received about aircraft from 2003 to 2004? (**Source 2**) (2 marks)
- (iii) Using the data in **Source 2**, suggest **two** reasons for the increasing trend in the total number of noise complaints received. (2 marks)
- (d) Why might the data in **Source 3** be of limited value and to whom? (9 marks)
- (e) Why might new businesses and industries decide **not** to locate in cities or towns? (9 marks)
- (f) Projected growth in air travel means we should plan further expansion of airports in the UK.
How far do you agree with this statement? (12 marks)
- (g) 'We are aware of what needs to be done to safeguard our environment, but we are not doing it'.
Using **Source 4** as a starting point how far do you agree with this assertion? (12 marks)

1 (a)



- (a)** Each line plotted accurately 2 x 2 m
 Scale and labelling of vertical axis 'visits in millions'
 or 'visits' if axis scaled in millions (not as likely) 1 m
 both lines labelled / key 1 m (6 marks)
- (b)** Expect **two** or **three** main points with development (6 marks)
- Growth in budget airlines makes foreign travel more affordable
 - Growth in travel programmes on TV makes visits more popular
 - Greater disposable income
 - International businesses link and leisure travel abroad.
- (c)** **(i)** $5973/7940 \times 100 = 75.23, 75.2, 75\%$ (2 marks)
 1 mark if working out is correct but answer is wrong
- (ii)** $(120 - 105) / 105 \times 100 = 14.29, 14.3, 14\%$ (2 marks)
 1 mark if working out is correct but answer is wrong
- (iii)** **Two** from the following: (2 marks)
- More internal and international flights lead to increased complaints about aircraft
 - More motorways and roads being constructed
 - Publicity from TV programmes such as 'Neighbours from Hell'
 - More audio and domestic equipment in homes
 - Other valid points should be credited.

(d) Banded mark scheme:

Band One	7 – 9	<p>A good response which demonstrates awareness of the limitations of the data and to whom it might be of limited value. Appropriate points/examples are chosen to help clarify arguments.</p> <p>The answer is well organised in a logical way with few, if any, errors of punctuation, spelling and grammar.</p>
Band Two	4 – 6	<p>A competent response which shows some awareness of the limitations of the data and to whom it might be of limited value. Some relevant points/examples are chosen to help clarify arguments.</p> <p>The answer is, for the most part, clear and adequately structured, though there may be errors of punctuation, spelling and grammar which do not hinder communication.</p>
Band Three	1 – 3	<p>A limited response in which only one or two basic limitations are identified.</p> <p>It is likely that the issue of ‘to whom’ will be barely addressed, if at all.</p> <p>Inappropriate points/examples are chosen or those selected are insufficiently explained to clarify arguments.</p> <p>The structure is flawed and frequent errors in punctuation, spelling and grammar may obscure points being made.</p>
Band Four	0	No response, or no relevant information.

Limitations of data

Examples of points:

- There are other airports not mentioned in the source
- There is no indication of the type of area involved e.g. residential or rural
- It is not clear if the area represents the area of the airport or the area affected by noise
- It does not say how the population is affected or if they have complained

Of limited value to:

- pressure groups – have no overall view for any further action
- the government/local authorities – for planning/finance
- airport authorities – have no information to help them reduce the noise levels or for comparison

(9 marks)

(e) Banded mark scheme:

Band One	7 – 9	A good response which demonstrates understanding of the issues. Appropriate points/examples are chosen to help clarify arguments. The answer is well organised in a logical way with few, if any, errors of punctuation, spelling and grammar.
Band Two	4 – 6	A competent response which shows some understanding of the issues. Some relevant points/examples are chosen to help clarify arguments. The answer is, for the most part, clear and adequately structured, though there may be errors of punctuation, spelling and grammar which do not hinder communication.
Band Three	1 – 3	A limited response in which only one or two basic issues are identified. Inappropriate points/examples are chosen or those selected are insufficiently explained to clarify arguments. The structure is flawed and frequent errors in punctuation, spelling and grammar may obscure points being made.
Band Four	0	No response or no relevant information.

Examples of points:

- **Cost** – the rent on land may be too prohibitive in cities/towns
- **Transport** – location near motorway hubs allows for easier access and reduces congestion in cities/towns
- **Housing** – A rural location might offer a better quality of life for their workforce
- **Government incentives** – may be available for businesses to locate in rural areas
- **Space** – More available space out of towns

(9 marks)

(f) Banded mark scheme:

Band One	9 – 12	<p>A good response which demonstrates understanding of the issues. Appropriate points/examples are chosen to help clarify arguments. The answer is well organised in a logical way with few, if any, errors of punctuation, spelling and grammar.</p>
Band Two	5 – 8	<p>A competent response which shows some understanding of the issues. A few relevant points/examples are chosen to help clarify arguments. The answer is, for the most part, clear and adequately structured, though there may be errors of punctuation, spelling and grammar which do not hinder communication.</p>
Band Three	1 – 4	<p>A limited response in which only one or two basic issues are identified. Inappropriate points/examples are chosen or those selected are insufficiently explained to clarify arguments. The structure is flawed and frequent errors in punctuation, spelling and grammar may obscure points being made.</p>
Band Four	0	No response, or no relevant information.

Examples of points:

Agree:

- **Need** – Source 1 shows an increasing trend for air transport
- **Economy** – reduce costs of flights/budget airlines and more import/export by air
- **Employment prospects** – more jobs available locally
- **Travel** – more opportunities available

Disagree:

- **Environment** – more atmospheric pollution and reduction of rural areas
- **Infrastructure** – more access needed, more motorways/roads
- **Cost** – There is a limited lifespan for the fuel supplies
- **Economy** – the growth of money spent abroad and not in the UK

(12 marks)

(g) Banded mark scheme:

Band One	9 – 12	A good response which demonstrates awareness of the issues. Appropriate points/examples are chosen to help clarify arguments The answer is well organised in a logical way with few, if any, errors of punctuation, spelling and grammar.
Band Two	5 – 8	A competent response which shows some awareness of the issues. Some relevant points/examples are chosen to help clarify arguments. The answer is, for the most part, clear and adequately structured, though there may be errors of punctuation, spelling and grammar which do not hinder communication.
Band Three	1 – 4	A limited response in which only one or two basic issues are identified. Inappropriate points/examples are chosen or those selected are insufficiently explained to clarify arguments. The structure is flawed and frequent errors in punctuation, spelling and grammar may obscure points being made.
Band Four	0	No response, or no relevant information.

Examples of points:

Agree:

- **Global** – not all countries are committed
- **Personal and collective responsibility** – we continue to use up non renewable resources yet we know it will present problems – ‘It won’t happen to me’
- **Effects** – difficult to measure and long term effects uncertain
- **Recycling** – Projects are limited and often dependent on local initiatives
- **Energy** – Green energy cannot meet all of our needs even if we are aware of its benefits

Disagree:

- **Internet** – Source 4 shows that we can and do participate in helping – up to date information is available
- **Education** – information available in many forms
- **Media** – coverage of any problems is instant and covered at all levels
- **Government** – initiatives encourage us to be aware of problems

(12 marks)

Distribution of Assessment Objective marks across Unit 3

Question Numbers		AO marks per unit
Assessment Objectives	AO1	18
	AO2	8
	AO3	18
	AO4	16
Total marks for paper		60