

Royal
Geographical
Society
with IBG



Risky World



Situation

As a nation we require more and more houses and yet there is less land available for these within cities. Developers are always on the lookout for land suitable for residential development. When they find a site, careful consideration of natural and human advantages and disadvantages is needed.

Task

Imagine you have been asked by Gloucester City Council's Planning Department to produce a report of two parts. The first part needs to identify at least three possible areas that would be suitable to build around sixty houses and apartments (for which you will need one hectare¹ if you are building apartments, and small two and three bedded houses with little open space). The second part of your report needs to critically analyse each site so that you can determine which site is best for residential development.

As this is a formal report, it would be most suitable as a word processed document.

Resources You will Need:

Levelling Grid

Resource Sheet B - Use of Sources

Resource Sheet C6&7 - Planning My Report

Resource Sheet D7 - Advantages and Disadvantages of Each Site

Resource Sheet E7 - Assessment of Flooding of Each Site

Resource Sheet G - Flooding in Gloucester July 2007

Resource Sheet H- Map of Gloucester

Calculator

Time Allowed

You will have **three** lessons and **two** homeworks for this assessment. You will need to use your classwork time to gather your information, interpret maps, and to draw your sketch maps. Your homework time will need to be used to write up your report.

Hand in Date:

¹ One hectare is 10 000 square metres.



Geography Assessment Criteria

You will be assessed on the key concepts of:

- Place
- Scale
- Environmental interaction
- Changes in human and physical processes

You will be assessed on the key processes of:

- Producing maps and plans at different scales
- Your approach to enquiry - how you plan your work (Resource Sheet A)
- Your use of Sources (Resource Sheet B)
- Your ability to draw conclusions
- Your ability to communicate effectively in different writing styles

Use your levelling grid to work out what you actually need to do for your target level.

Numeracy

You will be assessed on:

- 1) Number
 - i) calculating accurately and using reasoning to solve problems.
- 2) Shape, space and measurements
 - i) measuring using scale,
 - ii) choosing units,
 - iii) calculating perimeters and areas,
 - iv) drawing a plan to scale, and understanding scale.

You will Need to Hand In

Hand in the following stapled together:

- ✓ Your report
- ✓ Your workings out of how many houses will fit into each site
- ✓ A list of sources that you used.
- ✓ A critical analysis as to how biased each source is.
- ✓ Your plan for the assessment - Resource Sheet C6&7
- ✓ Your draft notes - Resource Sheets D7 and E7

Use of Sources

As you look up information remember to make a note of the title, author, and date it was published and some notes about how you think that your information is biased. Think about whom it is produced by, the focus of the information and when it was produced. All these things can influence bias. For each source you need to also state how valid (trustworthy) it is. Think about when it was produced and whether or not things have changed, qualifications and experience of the author, the depth of information and how it is presented.



Preparation Work

You will need to:

1. Read support materials about Gloucester in July 2007 and work out the causes of the natural disaster, how it affected individuals and businesses and what solutions were used to cope with the natural disaster.
2. Locate Gloucester within the United Kingdom.
3. Understand how the location and features of Gloucester contributed to the flooding.
4. Identify three possible sites for residential within Gloucester.
5. Give the six figure grid references of these sites.
6. Complete Resource Sheet C7 - Advantages and Disadvantages of Sites.
7. Complete Resource D7 - Assessment for Flooding of Each Site
8. Decide on the best site for building upon.
9. Produce a sketch map of your proposed site, drawn to scale from an Ordnance Survey map. Your sketch must cover *at least* one square kilometre.



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Your report will need five sections:

1) An Introduction:

- i) What you have been asked to do.
- ii) Who has asked you to do this.
- iii) Which settlement you are writing about.
- iv) Where this settlement is in the United Kingdom (include map).
- v) What this settlement is like - the physical and human characteristics.
- vi) Why this settlement is *at risk*.

2) Details on how Gloucester and individuals were affected by flooding in July 2007.

- i) How Gloucester was affected.
- ii) Why Gloucester was affected so badly.
- iii) How this affected individuals.
- iv) How this affected businesses.

3) Details on the sites you have identified. For each site:

- i) Give its grid reference and name.
- ii) The advantages of this site.
- iii) The disadvantages of this site.
- iv) An estimation (with workings out) of how many houses

you could build.

4) Your choice of site for building houses. To arrive at this you could invent a scoring system for each category of the flooding assessment.

- i) Give reasons as to why you consider this site to be most appropriate.
- ii) Produce a sketch map of your proposed site, drawn to scale from an Ordnance Survey map. Your sketch must cover *at least* one square kilometre.
- iii) Give solutions to preventing effects of any future flooding.
- iv) Give your comments on what you think about the size houses and the amount of open space that you have allowed for.

5) A conclusion to cover:

- i) Who asked for this report.
- ii) Why this report was asked for.
- iii) What your recommendations are.



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Writing Styles

You will need to use analytical writing so that your report is well reasoned. The structure of your writing needs to be logical and clear with each section having a clear title, or sub-title, and being clearly set out. Be careful with the tenses that you use as you will need to switch between past, present and future. Remember that your writing is analytical throughout so you have to give lots of reasons, advantages and disadvantages. Back up the points you make with facts.

The structure of your report could be:

1) An Introduction:

- i) What you have been asked to do.
- ii) Who has asked you to do this.
- iii) Which settlement you are writing about.
- iv) Where this settlement is in the United Kingdom (include map).
- v) Why Gloucester is a good location for businesses.
- vi) Why there is such a demand for housing in Gloucester.
- vii) Why parts of Gloucester are susceptible to flooding. Which parts are these?
- viii) How heavy rainfall, increased discharge, location and the built environment all interrelate to explain Gloucester's flooding.
- ix) Why this settlement is *at risk* in comparison to other places in The United Kingdom.

2) Details on how Gloucester and individuals were affected by flooding in July 2007.

- i) How Gloucester was affected.
- ii) Why Gloucester was affected so badly.
- iii) How this affected individuals.
- iv) How this affected businesses.

Useful Vocabulary

absorption	levee
barriers	long term impact
clay	open land
contamination	precipitation
damage	river
devastation	river bank
developers	short-term impact
discharge	silt
flood plain	transport routes
flow	trees
ground water	tributary
impact	walls
impermeable	water supply
insurance	

Useful Connectives

Connectives for Cause and Effect

as a result of

- 3) Details on the sites you have identified. For each site:
- i) Give its grid reference and name.
 - ii) Draw a sketch map of the area *to scale*.
 - iii) The advantages of this site.
 - iv) The disadvantages of this site.
 - v) An estimation (with workings out) of how many houses you could build.
- 4) Your choice of site for building houses. To arrive at this you could invent a scoring system for each category of the flooding assessment.
- i) Give reasons as to why you consider this site to be most appropriate.
 - ii) Give solutions to preventing effects of any future flooding.
 - iii) Give your comments on what you think about the size houses and the amount of open space that you have allowed for.
 - iv) Give a brief analysis of why open space is so essential.
- 5) A conclusion to cover:
- i) Who asked for this report.
 - ii) Why this report was asked for.
 - iii) What your recommendations are.
 - iv) How planning to avoid floods can change places and environments.

the effect of was
this in turn caused

Connectives for Time

first
later
meanwhile
next

Connectives for Logic

as a result of
for example
this shows

Remember to use a lot of geographical vocabulary for nouns and verbs. Make your writing flow well by using connectives for: cause and effect, time, and logic (see vocabulary lists).