

ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2012

71 Candidate Num

Geography

Assessment Unit AS 1

assessing

Physical Geography

[AG111]

WEDNESDAY 13 JUNE, AFTERNOON



TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Section A: candidates must answer this section.

Section B: answer **all three** questions in this section.

Section C: answer any **two** questions from this section.

You should write your answers in the spaces provided in this question paper.

At the end of the examination your summary of fieldwork and table of data should be attached securely to this paper using the treasury tag supplied.

INFORMATION FOR CANDIDATES

The total mark for this paper is 90.

Quality of written communication will be assessed in **all** questions.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

| For Examiner's use only | |
|-------------------------|-------|
| Question Number | Marks |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | _ |
| 6 | |
| 7 | |

| Total Marks | |
|----------------|--|
| | |



Answer this section

Submitted summary of fieldwork and table of data.

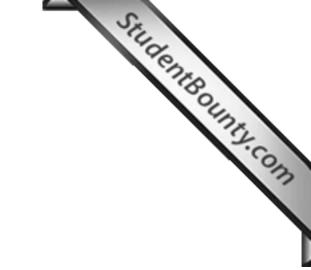
At the end of the examination these should be attached securely to this paper using the treasury tag supplied.

- 1 Study Resource 1, which illustrates a partially completed diagram of the stages involved in a fieldwork investigation.
 - (a) (i) Complete Resource 1 by labelling three additional stages which are necessary to complete the fieldwork investigation process. [3]

Resource 1 1. Aim and **Hypotheses** Stated Pre-Fieldwork 8. Geographical **Planning** Conclusion Relating to Aim 3. **FIELDWORK Primary** Data 7. Hypotheses **INVESTIGATION** Collection Accepted or **STAGES** Rejected 6. 5.

_____[8]

Studenth ounti-com Title of graph: _



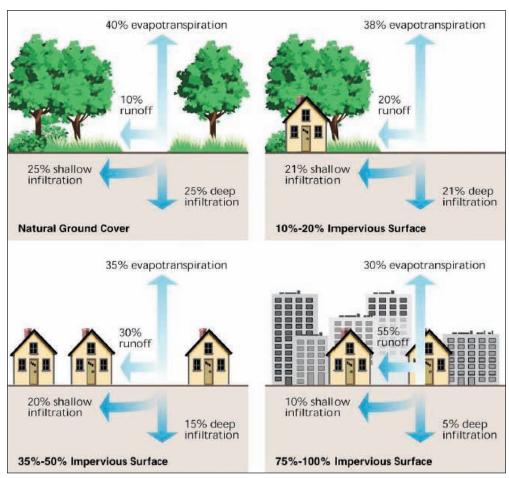
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(Questions continue overleaf)

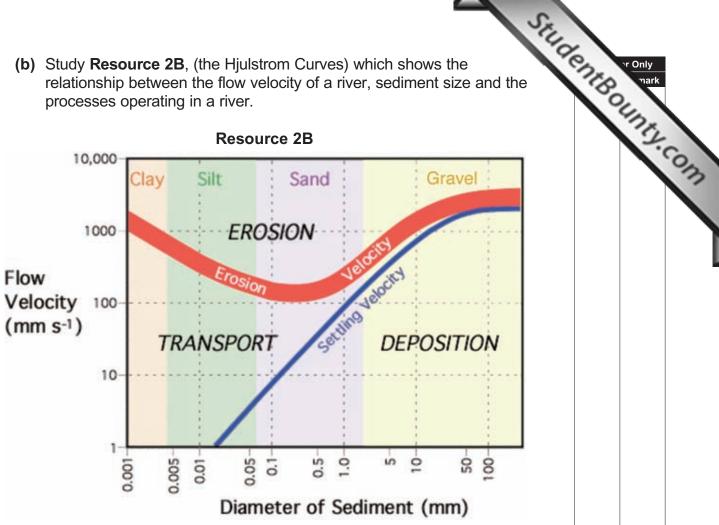
Answer all three questions in this section

2 (a) Study Resource 2A which shows the effect of land-use change in a drainage basin.

Resource 2A



© Urban Flood Risk Management, Associated Programme on Flood Management, page 5, published by the World Meteorological Organisation, March 2008



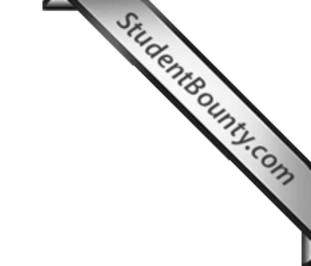
© http://www.physicalgeography.net/fundamentals/10w.html Reproduced with kind permission.

(i) What is the minimum flow velocity required to transport sediment with a diameter of 1 mm?

_mm s⁻¹ [1]

[4]

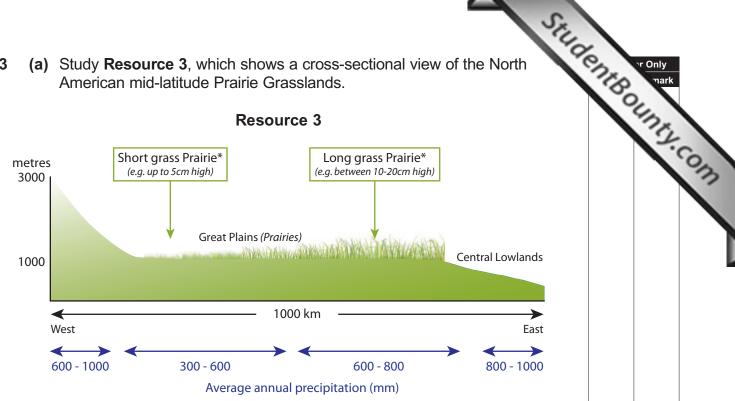
(ii) Describe and explain the relationship between the erosion velocity and sediment size.



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Resource 3



* Height of grass is not to scale

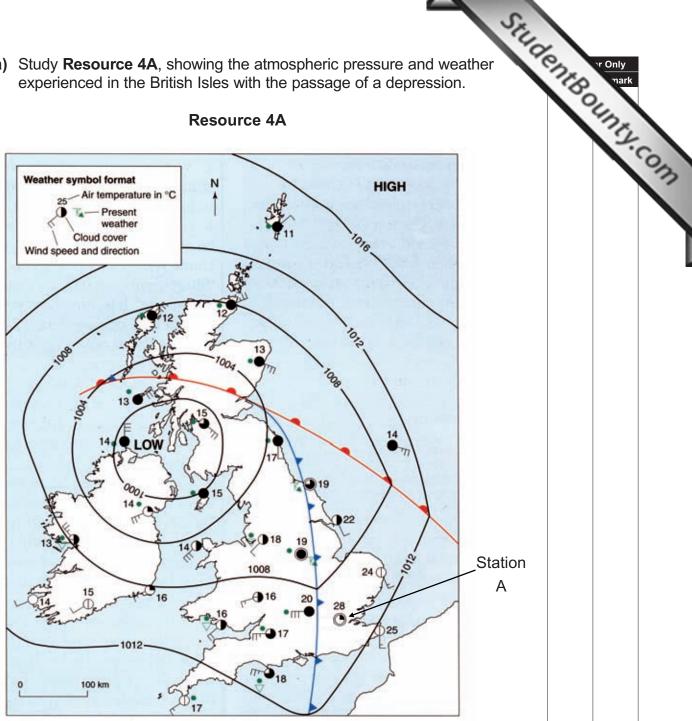
© Geo Factsheet Number 125, page 3, published by Curriculum Press. ISSN 1351-5136

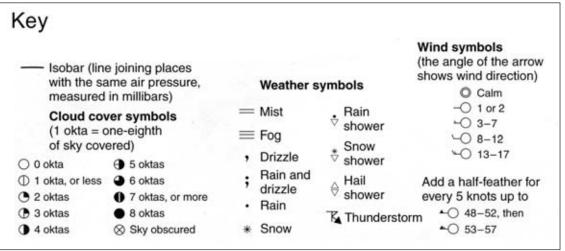
(i) Use Resource 3 to help you describe how the vegetation of mid-latitude grasslands is adapted to the climate.

[3]

(a) Study Resource 4A, showing the atmospheric pressure and weather experienced in the British Isles with the passage of a depression.

Resource 4A





© Physical environments: a case-study approach to AS and A2 geography by Jack and Meg Gillett, published by Hodder & Stoughton, 2003. ISBN 0340782072. "Reproduced by permission of Hodder & Stoughton".

Student Bounty.com (i) Complete the table below, Resource 4B, to show some aspects of the weather being experienced at Station A. The temperature has been completed for you.

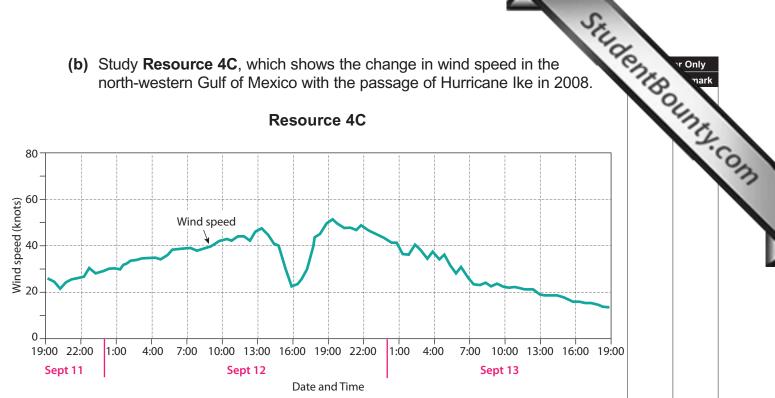
Resource 4B

| Weather Element | Station A |
|-----------------|-----------|
| Temperature | 28°C |
| Pressure | |
| Cloud Cover | |

[2]

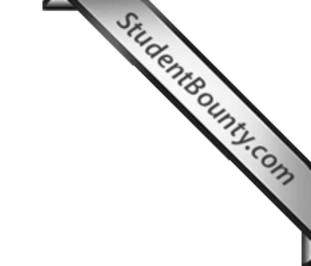
| (ii) | Identify and describe the type of air mass affecting Station A. | | |
|-------|--|--|--|
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| | [2 | | |
| | | | |
| (iii) | With reference to Resource 4A , describe and explain how the weather experienced at Station A is likely to change over the nex few hours. | | |
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Section C



5 With reference to a large scale drainage basin or its delta, describe both the beneficial and detrimental effects of flooding on people and property.

- 6 Describe how energy is transferred and nutrients are cycled in a small scale ecosystem you have studied. [12]
- 7 Describe and explain the contrasting weather associated with summer and winter anticyclones. With reference to your case studies, discuss their human effects. [12]

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THIS IS THE END OF THE QUESTION PAPER

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