



Rewarding Learning

ADVANCED SUBSIDIARY (AS)  
General Certificate of Education  
2015

Centre Number

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Candidate Number

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# Geography

Assessment Unit AS 1  
*assessing*  
Physical Geography



AG111

[AG111]

MONDAY 15 JUNE, MORNING

**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.

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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 the 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	
<b>Total Marks</b>	







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**INFORMATION FOR CANDIDATES**

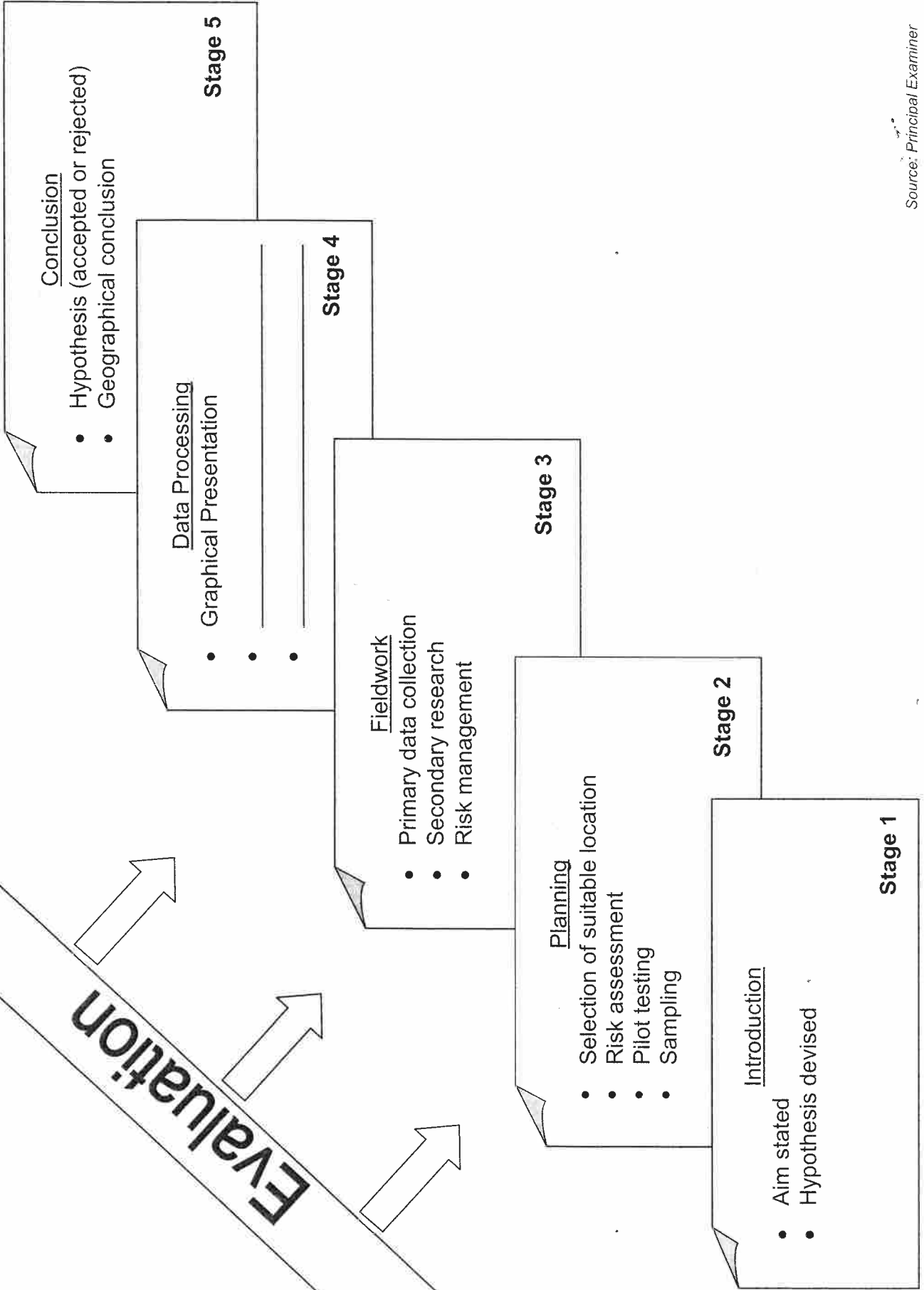
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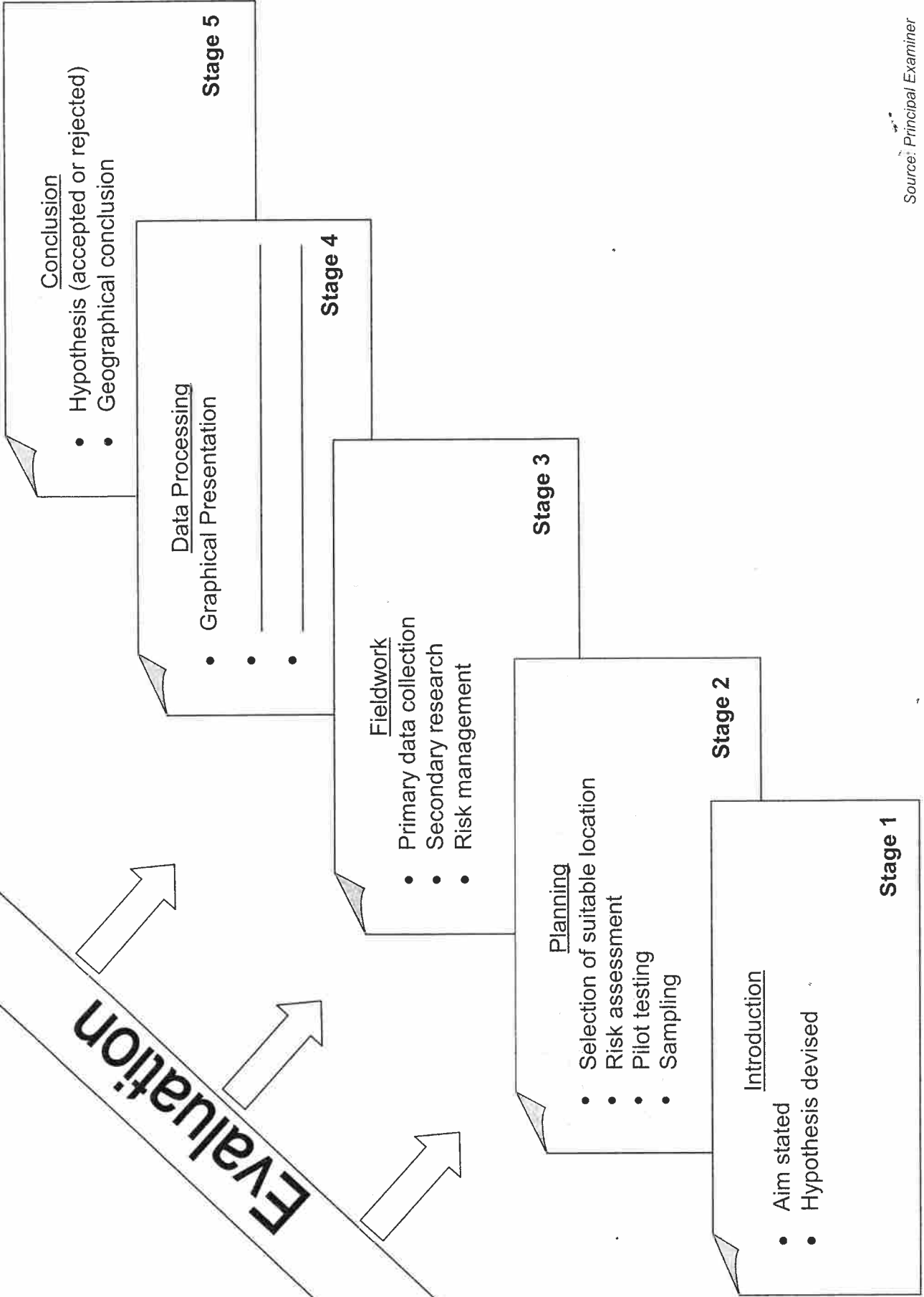
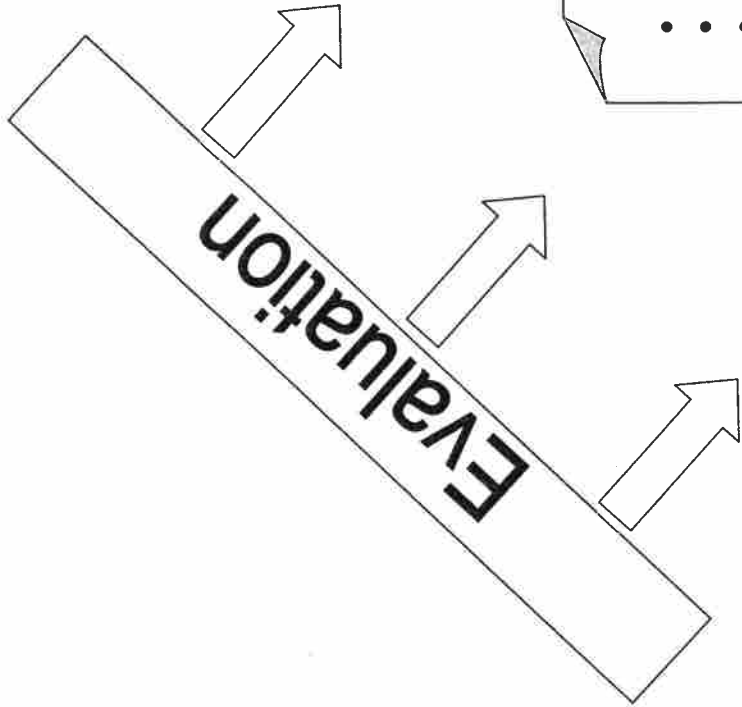
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# Evaluation









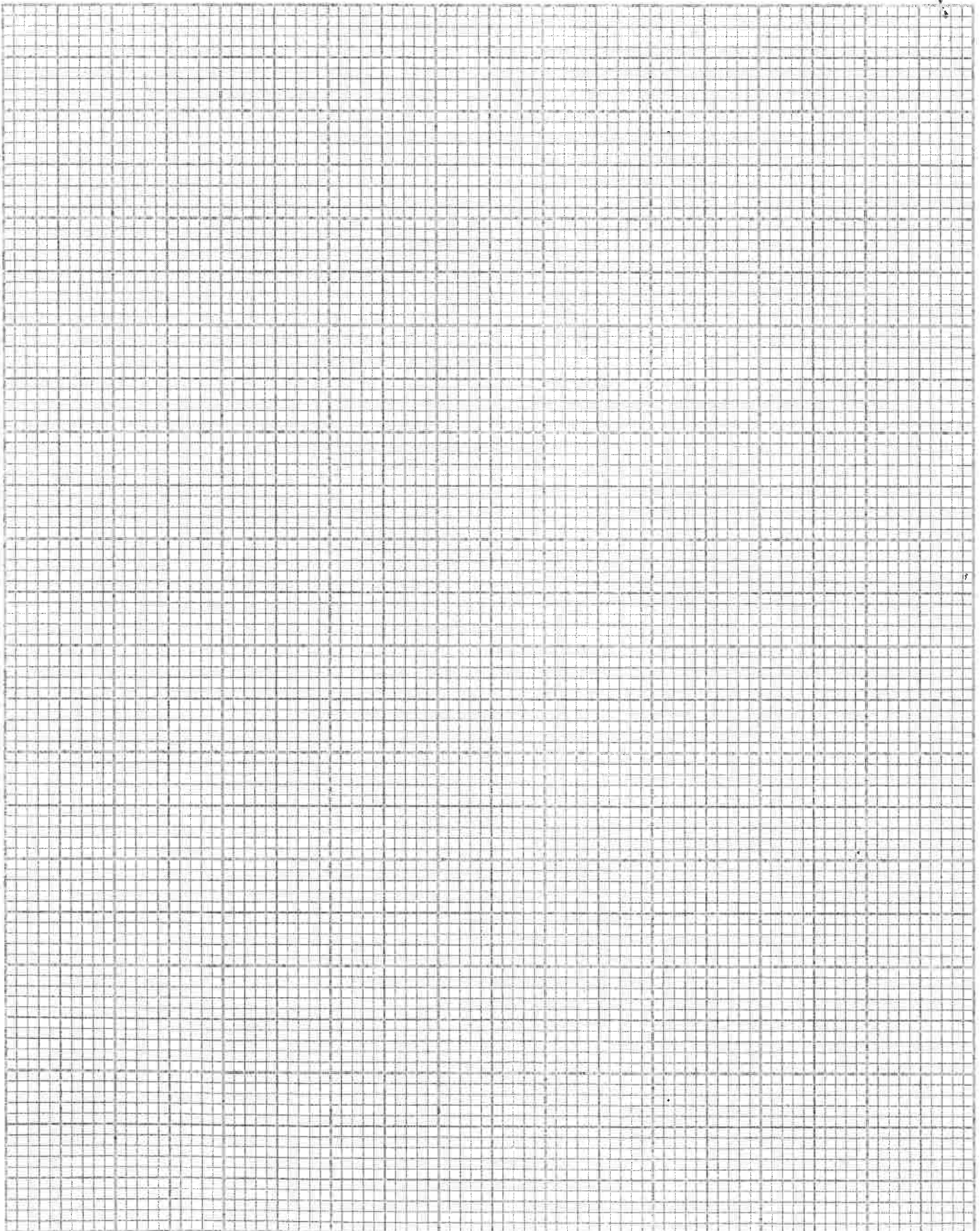


(b) (i) Select an appropriate graphical technique to present data displayed in your table. Your graph must be relevant to the aim/hypothesis of your fieldwork.

[7]

Title of Graph \_\_\_\_\_

Examiner Only	
Marks	Remark





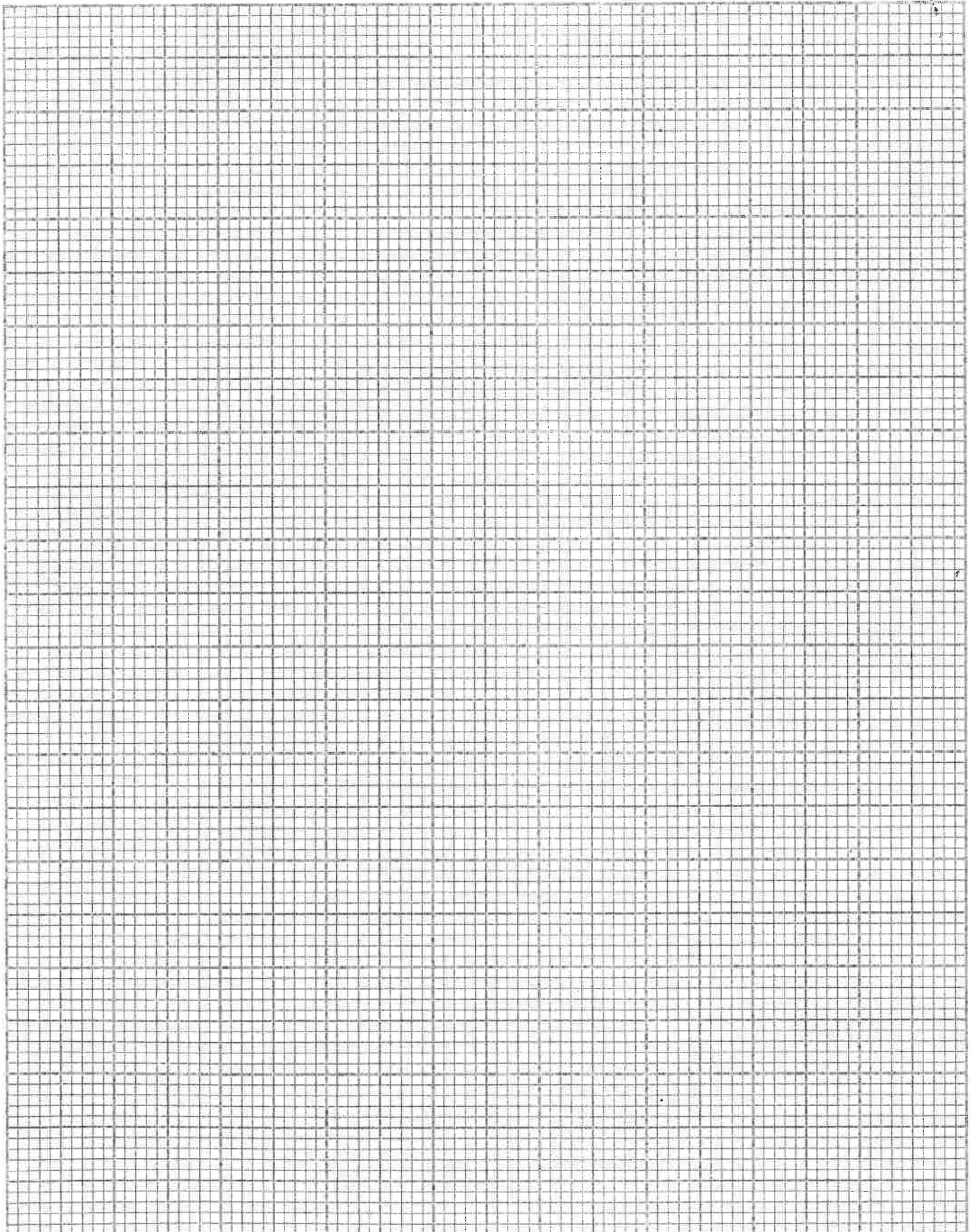


(b) (i) Select an appropriate graphical technique to present data displayed in your table. Your graph must be relevant to the aim/hypothesis of your fieldwork.

[7]

Title of Graph \_\_\_\_\_

Examiner Only	
Marks	Remark





(ii) Discuss why Newaukum Creek experienced higher stream flow between the 2<sup>nd</sup> and 7<sup>th</sup> of February.

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[2]

Examiner Only	
Marks	Remark

(ii) Discuss why Newaukum Creek experienced higher stream flow between the 2<sup>nd</sup> and 7<sup>th</sup> of February.

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[2]

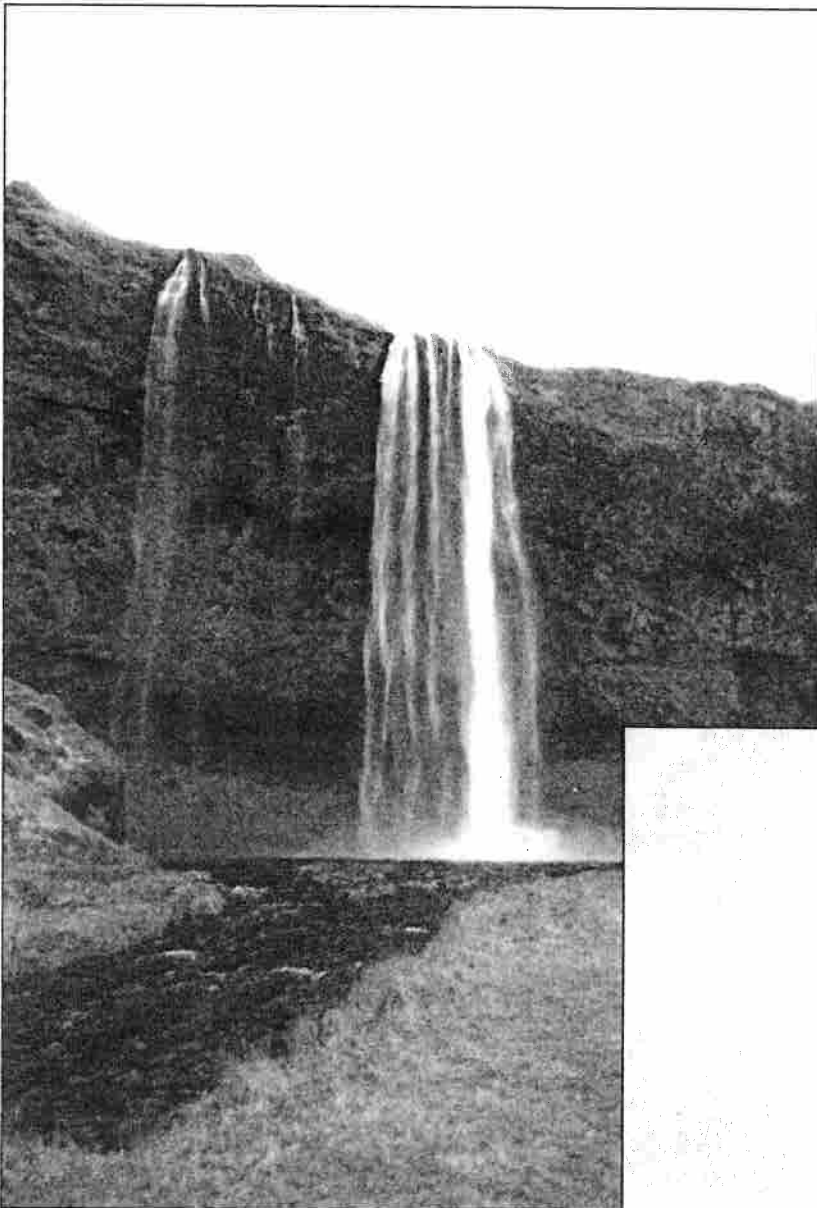
Examiner Only	
Marks	Remark





(b) Study **Resource 2B** below which illustrates the Seljalandsfoss waterfall in Iceland.

**Resource 2B**



Front view

Side view



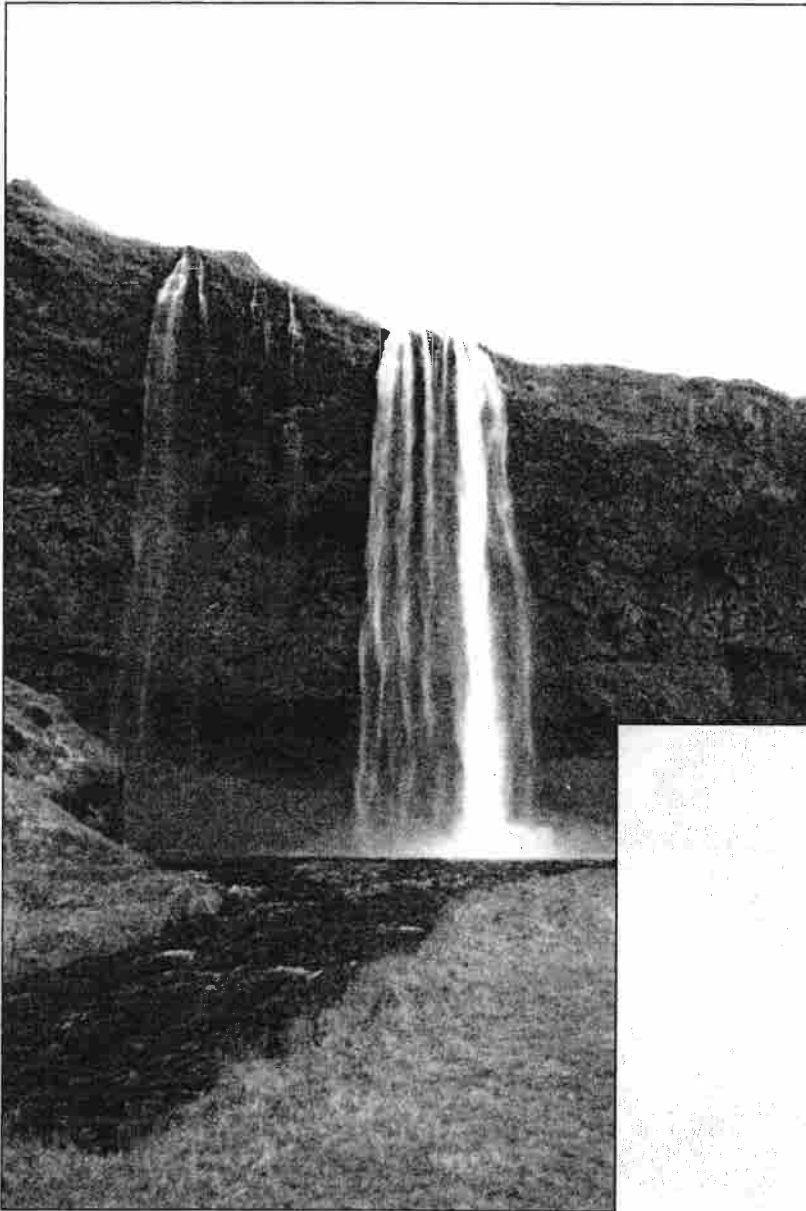
Source: *Principal Examiner*





(b) Study **Resource 2B** below which illustrates the Seljalandsfoss waterfall in Iceland.

**Resource 2B**



Front view

Side view



Source: Principal Examiner



(ii) Briefly explain **two** short term changes in the trophic pyramid if an outbreak of disease reduced the grasshopper population.

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[2]

Examiner Only	
Marks	Remark

(ii) Briefly explain **two** short term changes in the trophic pyramid if an outbreak of disease reduced the grasshopper population.

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[2]

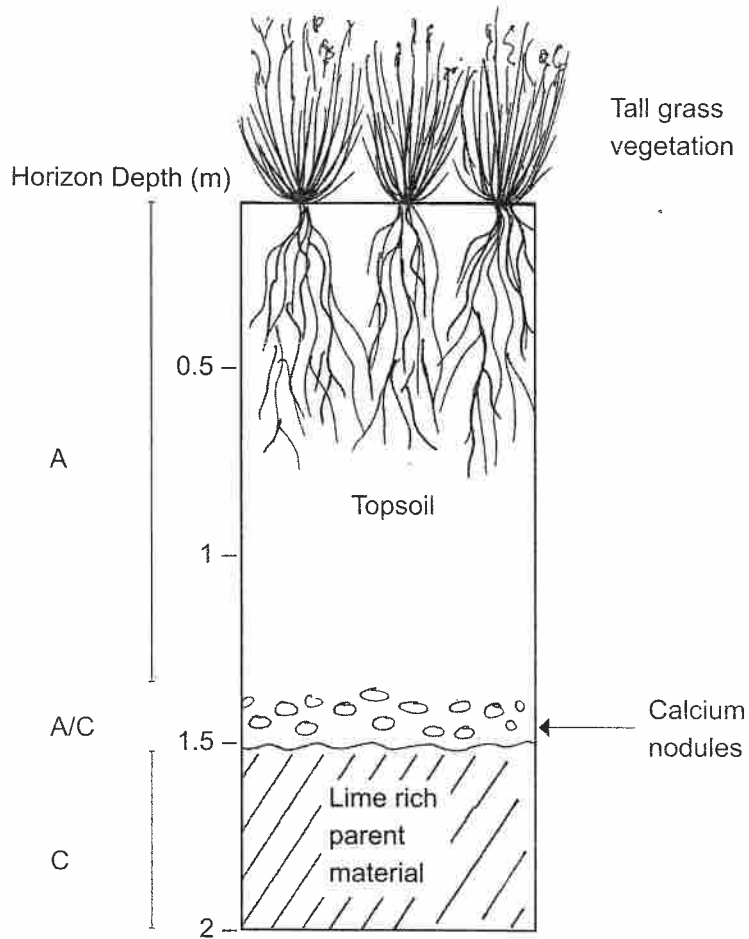
Examiner Only	
Marks	Remark





- (b) Study **Resource 3B** below which illustrates some of the characteristics of a mollisol/chnozem soil profile for a mid-latitude grassland ecosystem.

**Resource 3B**



Source: Principal Examiner

- (i) Add labels to **Resource 3B** to illustrate any **two** additional characteristics of the topsoil (A Horizon) for this soil profile. [2]

Examiner Only	
Marks	Remark



(ii) Explain two ways in which the climate influences the movement of water through this soil and describe how this affects the soil profile.

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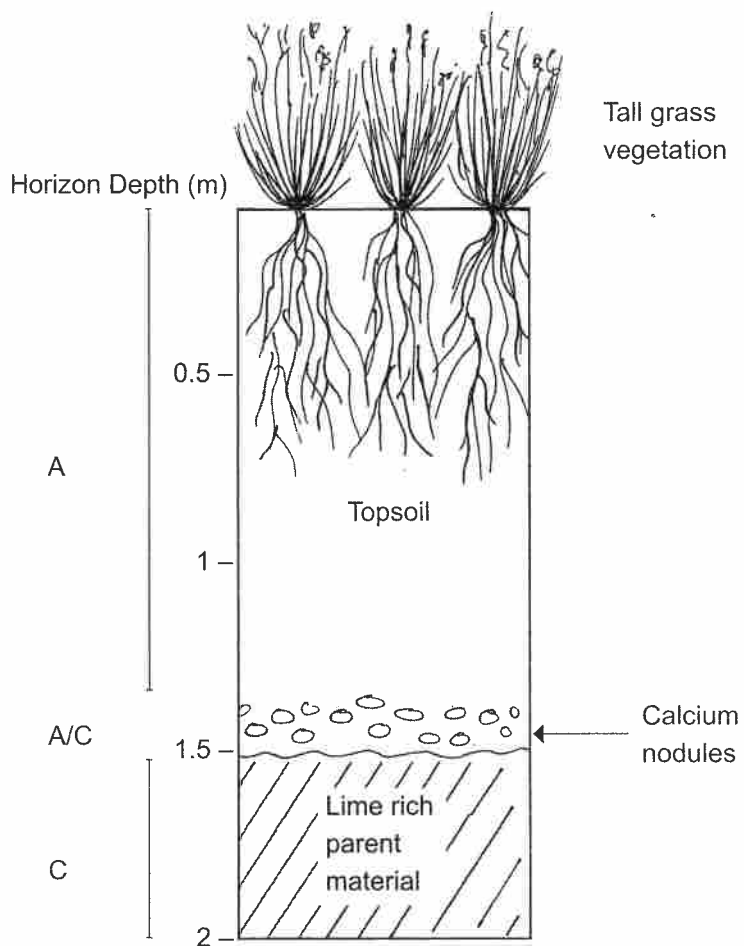
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[4]

Examiner Only	
Marks	Remark

- (b) Study **Resource 3B** below which illustrates some of the characteristics of a mollisol/chnozem soil profile for a mid-latitude grassland ecosystem.

**Resource 3B**



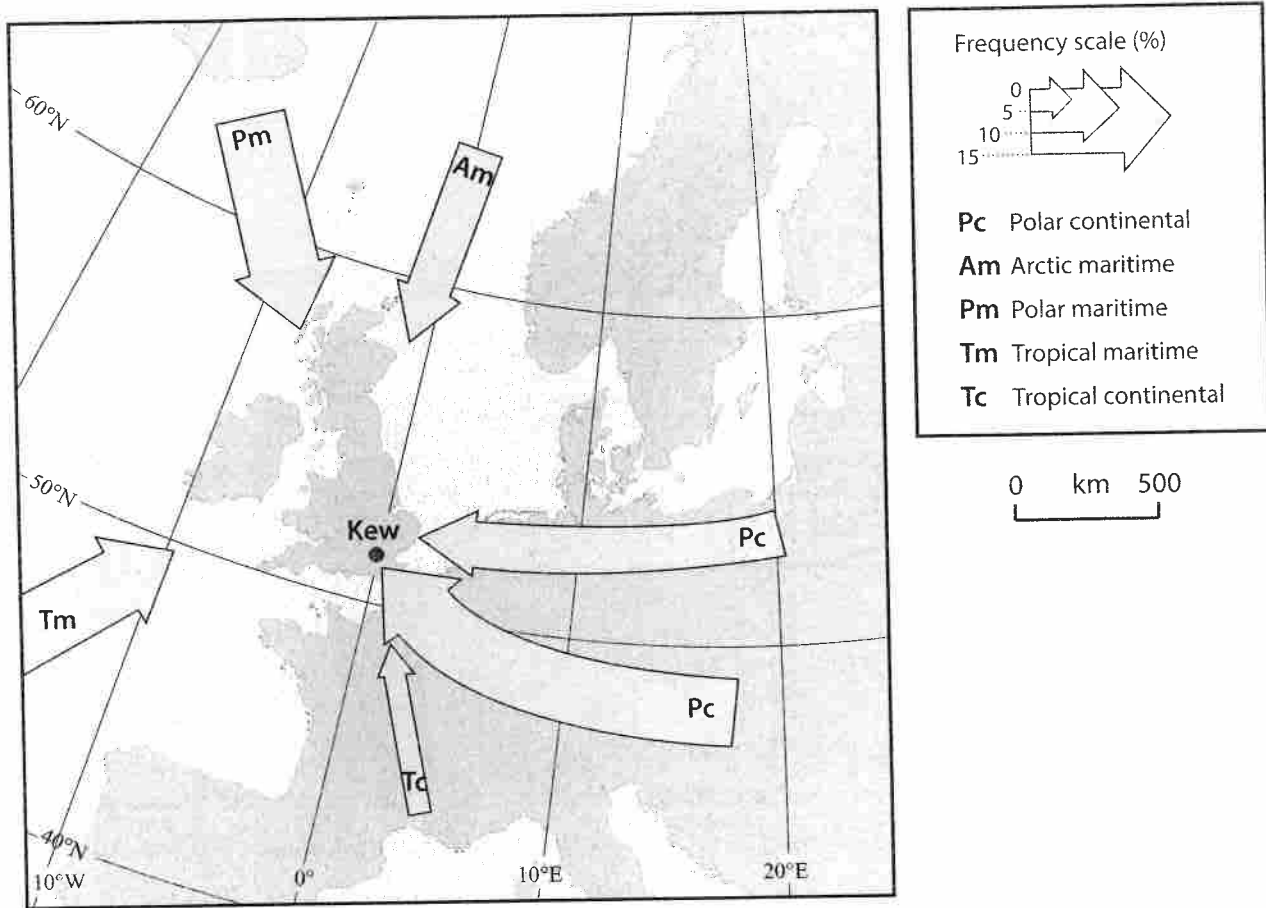
Source: Principal Examiner

- (i) Add labels to **Resource 3B** to illustrate any **two** additional characteristics of the topsoil (A Horizon) for this soil profile. [2]

Examiner Only	
Marks	Remark

4 (a) Study **Resource 4A** below showing average air mass frequencies for Kew, London.

**Resource 4A**



Source: *Advanced Geography through Diagrams, Nagle & Spencer.*

(i) State the average frequency of the Polar maritime air mass.

\_\_\_\_\_ [1]

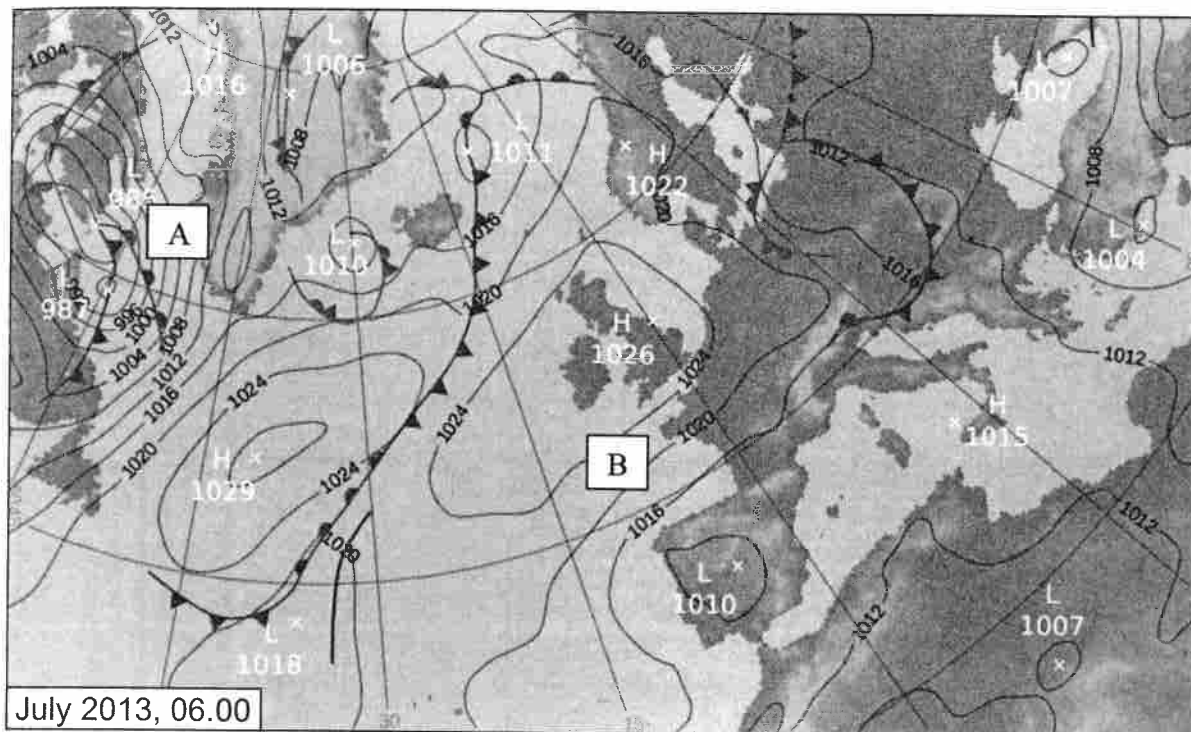
(ii) Explain the typical weather conditions which occur when the UK experiences a Tropical maritime air mass.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]

Examiner Only	
Marks	Remark

- (b) Study **Resource 4B** below which illustrates a high pressure weather system over Western Europe in July 2013 and **Resource 4C** (on page 18) which shows the weather conditions associated with this anticyclone over the British Isles at 6am.

**Resource 4B**



Source: Met Office

- (i) Using evidence from **Resource 4B**, explain why area A experienced stronger winds than area B.

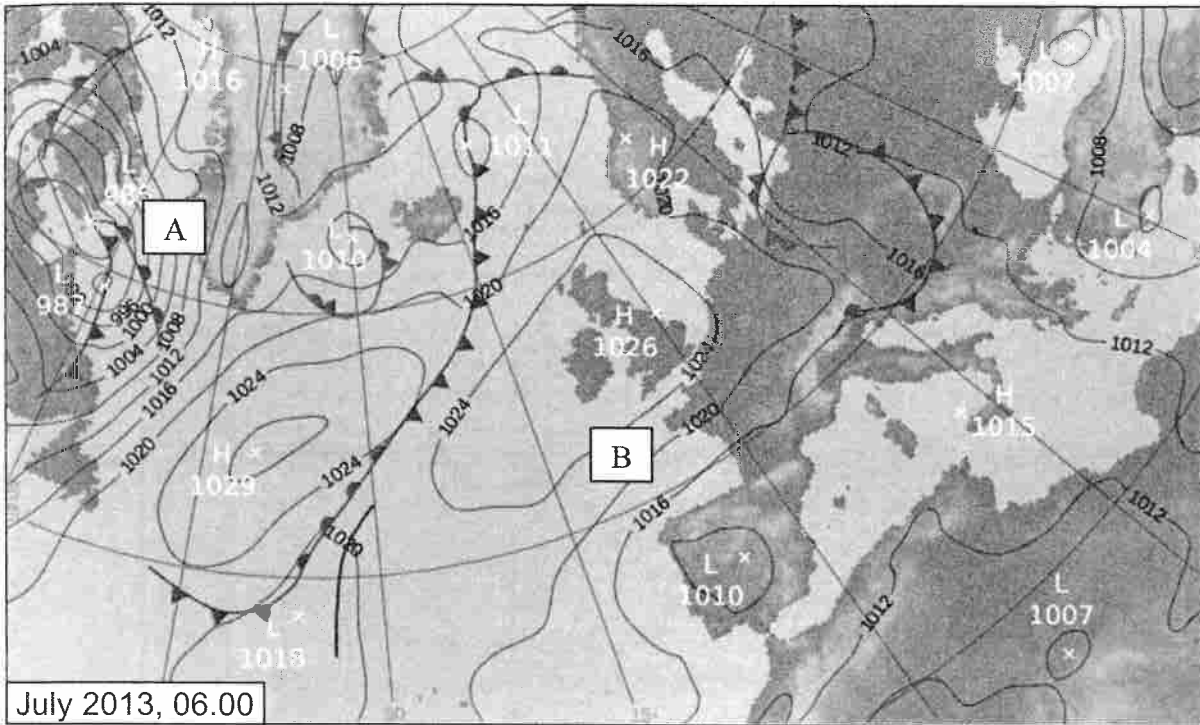
\_\_\_\_\_

\_\_\_\_\_ [2]

Examiner Only	
Marks	Remark

- (b) Study **Resource 4B** below which illustrates a high pressure weather system over Western Europe in July 2013 and **Resource 4C** (on page 18) which shows the weather conditions associated with this anticyclone over the British Isles at 6am.

**Resource 4B**



Source: Met Office

- (i) Using evidence from **Resource 4B**, explain why area A experienced stronger winds than area B.

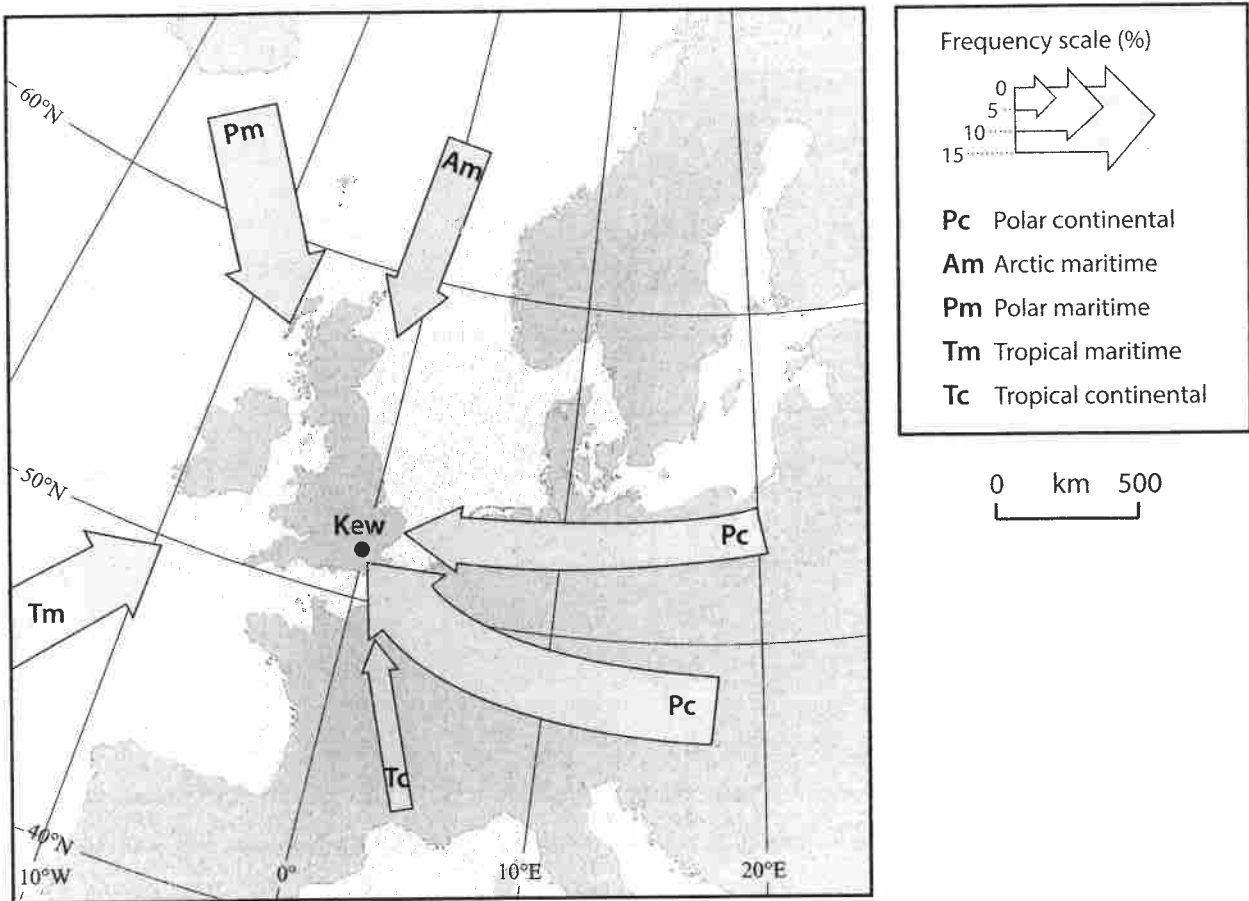
\_\_\_\_\_

\_\_\_\_\_ [2]

Examiner Only	
Marks	Remark

4 (a) Study **Resource 4A** below showing average air mass frequencies for Kew, London.

**Resource 4A**



Source: *Advanced Geography through Diagrams*, Nagle & Spencer.

(i) State the average frequency of the Polar maritime air mass.

\_\_\_\_\_ [1]

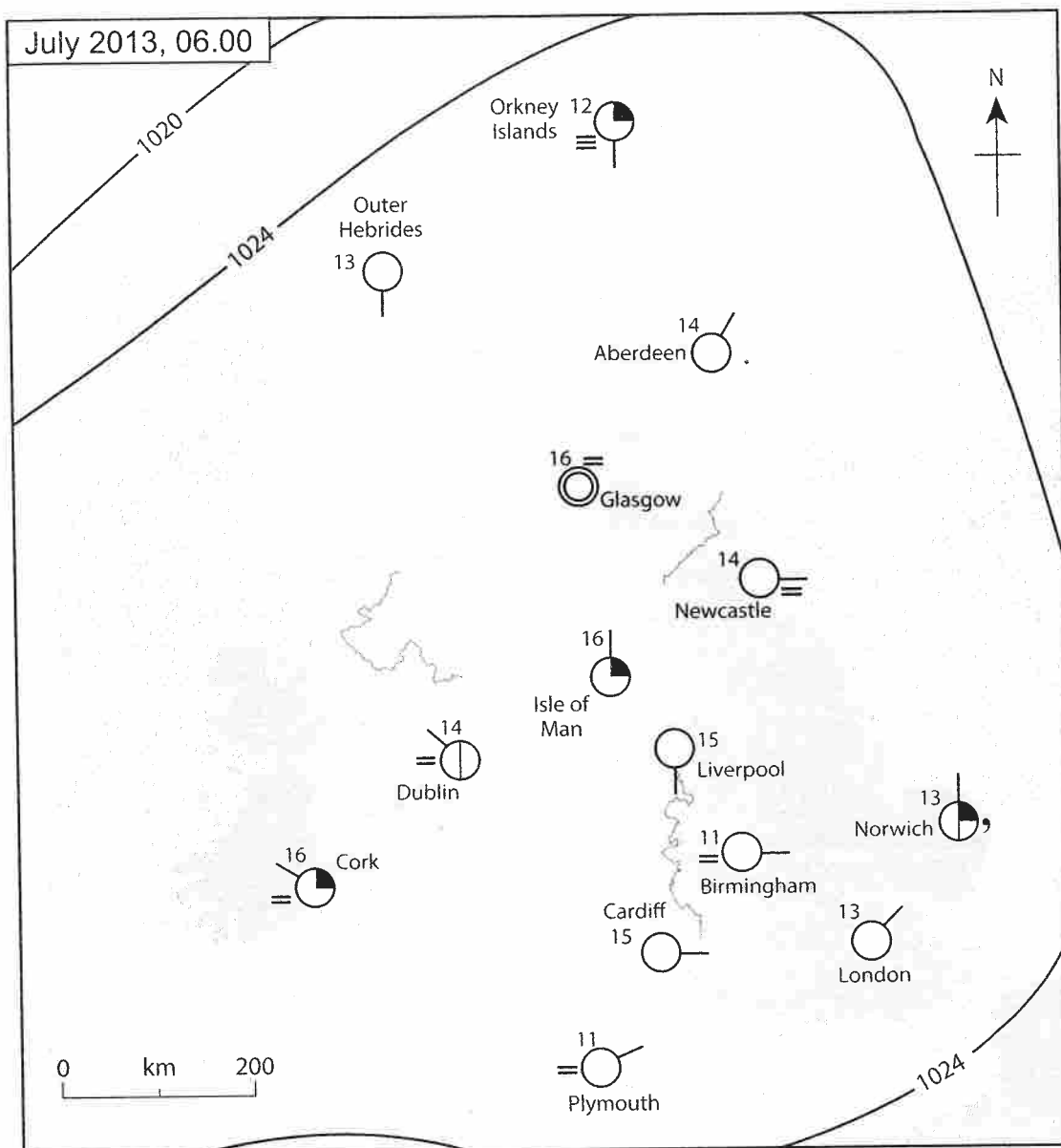
(ii) Explain the typical weather conditions which occur when the UK experiences a Tropical maritime air mass.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [3]

Examiner Only	
Marks	Remark



## Resource 4C



### Symbols used on a weather chart

Symbol	Precipitation	Cloud cover	Wind speed
↘	Drizzle	○ Clear sky	⊙ Calm
∇	Shower	◐ One Okta	○— 1 - 2 Knots
•	Rain	◑ Two Oktas	○— 5 Knots
★	Snow	◒ Three Oktas	○— 10 Knots
△	Hail	◓ Four Oktas	○— 15 Knots
⚡	Thunderstorm	◔ Five Oktas	○— 20 Knots
⬢	Heavy rain	◕ Six Oktas	○— 50 Knots or more
⋆	Sleet	◖ Seven Oktas	
⚡	Snow shower	◗ Eight Oktas	
≡	Mist	⊗ Sky Obscured	
≡	Fog		

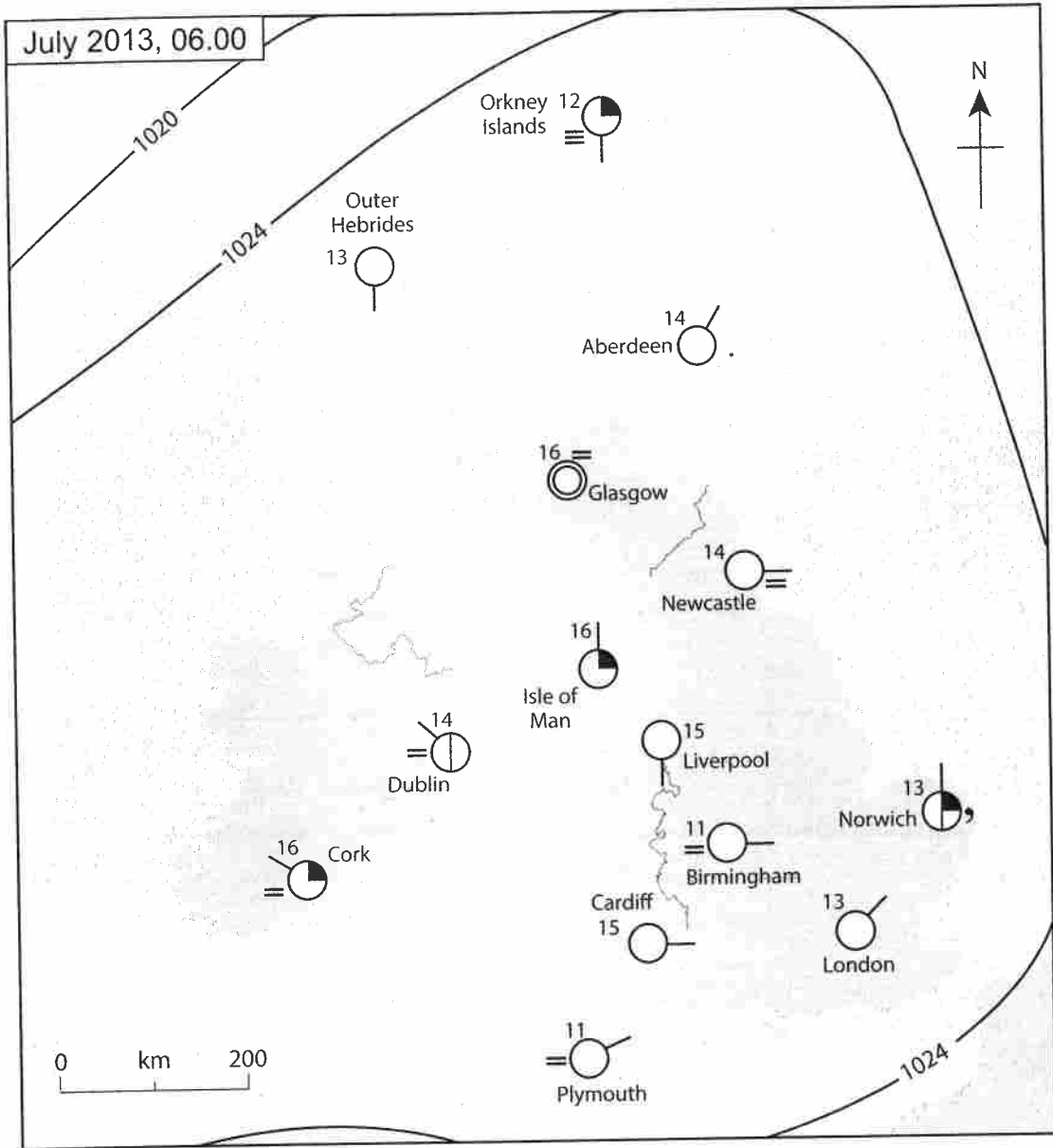
Symbol	Temperature	Cloud cover	Present weather
12	Temperature	◐	Present weather
↘	Wind direction	○	Present weather
10	Wind speed	○	Present weather

Source: Principal Examiner – data extracted from <http://www.metoffice.gov.uk/public/weather/surface-pressure/#?tab=surfacePressureColour&fcTime=1373544000>





# Resource 4C



### Symbols used on a weather chart

Symbol	Precipitation	Cloud cover	Wind speed
↘	Drizzle	○	☉
▽	Shower	◐	○—
●	Rain	◑	○—
★	Snow	◒	○—
△	Hail	◓	○—
⚡	Thunderstorm	◔	○—
⬢	Heavy rain	◕	○—
⬢	Sleet	◖	○—
⬢	Snow shower	◗	○—
⬢	Mist	◘	○—
⬢	Fog	◙	○—
⬢		⊗	○—

Symbol	Temperature	Cloud cover	Present weather
12	Temperature	○	●
↘	Wind direction	◐	⬢
	Wind speed	◑	⬢

Source: Principal Examiner – data extracted from <http://www.metoffice.gov.uk/public/weather/surface-pressure/#?tab=surfacePressureColour&fcTime=1373544000>





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71	
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*assessing*

### Physical Geography

[AG111]



THURSDAY 5 JUNE, AFTERNOON

#### TIME

1 hour 30 minutes.

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