



ORANGE HIGH SCHOOL

Subject	Geography – Year 11
Topic	Biophysical Interactions
Class Teacher	Bonin
Head Teacher	Paine
Stage	6
Task Weighting	20%
Date Given	Week 7
Date Due	Week 9 – Friday 24/03 – Period 2
Feedback Given	Written on Assessment – Verbal on request

Outcomes being Assessed

P2 Describes the interactions between the four components which define the biophysical environment

P3 Explains how a specific environment functions in terms of biophysical factors

P8 Selects, organises and analyses relevant geographical information from a variety of sources

P9 Uses maps, graphs, statistics, photographs and fieldwork to conduct geographical inquiries

P11 Applies geographical understanding and methods ethically and effectively to research a project

P12 Communicates geographical information, ideas and issues using appropriate written and/or oral cartographic and graphic forms

Context

This activity takes place in the Biophysical Interactions section of the Preliminary Geography course. The activity builds on students' skills in identifying, gathering and evaluating geographical information and communicating the results in an extended response.

Task Description

Part 1: Research

1. Select **ONE** geographical issue from the list below:

- Loss of permafrost.
- Reduction of snowpack.
- Shrinking of Glaciers.
- Loss of Ice Sheets.
- Any other environmental change impacting the cryosphere.

2. Select, gather information and conduct research from a variety of sources relevant to the requirements detailed in Part 2.

3. Construct a stimulus sheet- one A4 double sided only with appropriate stimulus (approximately 5-8 sources). in the form of maps, diagrams, graphs and photographs. (to be brought into class on the day of the timed written response).

Part 2: In class response, under exam conditions- 45 minutes writing time.

In class you will write a report on your studied geographical issue. In your response you must:

- **Outline** of the nature of the issue and its occurrence around the world
- **Describe** the key biophysical processes that relate to the issue

For a specific location where your issue occurs:

- **Explain** the sensitivity of the environment to change
- **Evaluate** the importance of effective management of the issue.

You will be allowed to bring in the stimulus sheet you constructed. This stimulus must be discussed in your response. It is to have limited text-labels only, no detailed descriptions of the sources and no sources that are text only. Sources should be graphs, maps pictures and diagrams. This will be handed up with your response.

It is expected you will write approximately 3-4 pages in a standard writing booklet in this time.

MARKING GUIDELINES

Criteria	Mark
<ul style="list-style-type: none"> • Indicates in detail the nature of the issue and the main occurrences around the world • Provides a thorough understanding of the key characteristics and features of the biophysical processes that relate to the issue • Provides a comprehensive cause and effect of the sensitivity of the environment • Evaluates thoroughly the importance of effective management of the issue • Refers to relevant information from a variety of sources in a comprehensive bibliography • Presents a sustained, logical and cohesive response using appropriate geographical information, ideas and issues • Uses and integrates a wide range of stimulus which includes diagrams, photographs, maps, graphs and statistics where appropriate 	25-30
<ul style="list-style-type: none"> • Clearly indicates the nature of the issue and its occurrence around the world • Provides an understanding of the key characteristics and features of the biophysical processes that relate to the issue • Provides thorough cause and effect of the sensitivity of the environment • Detailed evaluation of the importance of effective management of the issue • Refers to information from sources about the issue in a detailed bibliography • Presents a logical and cohesive response using appropriate geographical information, ideas and issues • Uses and integrates a variety of stimulus which may include diagrams, photographs, maps, graphs and statistics where appropriate 	19-24
<ul style="list-style-type: none"> • Indicates in general the nature of the issue and its occurrence around the world • Provides a sound understanding of the key characteristics and features of the biophysical processes that relate to the issue • Provides a sound cause and effect of the sensitivity of the environment • Describes management strategies/issues and attempts to evaluate the importance of effective management of the issue • Refers to information from some sources about the issue in a simple bibliography • Presents a structured response using appropriate geographical information • Uses and attempts to integrate stimulus which may include diagrams, photographs, maps, graphs and statistics where appropriate 	13-18
<ul style="list-style-type: none"> • Briefly indicates the nature of the issue and its occurrence around the world • Provides some features of the biophysical processes that relate to the issue • Describes the sensitivity of the environment • Outlines the different management approaches to the issue • Basic use of information with a limited bibliography • Presents a simple response using some geographical information • Includes stimulus material but does not refer to it 	7-12
<ul style="list-style-type: none"> • Indicates a limited understanding of the nature of the issue and its occurrence around the world • Provides limited features of the biophysical processes that may relate to the issue • Shows a limited understanding of the sensitivity of the environment • Provides limited management approaches to the issue • May refer to information from sources, but no bibliography included • Presents a brief response • Lacks any stimulus material. 	1-6

Scaffold

Response section:	What to include:
<p>Introduction</p>	<ul style="list-style-type: none"> - Identify geographical issue and sphere - Statement on the state of the issue - Identify the specific location for Body 3 and 4 - Address each of the 4 parts you will be discussing- Body 1,2,3,4.
<p>Body 1: Outline of the nature of the issue and its occurrence around the world</p> <p><i>For your issue in general</i></p>	<ul style="list-style-type: none"> - Outline what the issue is - Where it occurs in the world- name regions, countries, cities as appropriate (include a map/s) - Include appropriate stimulus in the form of maps, diagrams, graphs and photographs.
<p>Body 2: Describe the key biophysical processes that relate to the issue</p> <p><i>For your issue in general</i></p>	<ul style="list-style-type: none"> - Identify and describe the causes of your issue- relating to interactions between the 4 spheres - Identify and describe the effects/impacts of your issue- relating to interactions between the 4 spheres - Include appropriate stimulus in the form of maps, diagrams, graphs and photographs.
<p>Body 3: Explain the sensitivity of the environment to change</p> <p><i>For a specific location where your issue occurs</i></p>	<ul style="list-style-type: none"> - Identify the specific location - Describe the environment/biome in detail - Cause and effect of how the environment is impacted by your chosen issue - Statistics - Stimulus: photographs, diagrams, graphs, maps
<p>Body 4: Evaluate the importance of effective management of the issue.</p> <p><i>For a specific location where your issue occurs</i></p>	<ul style="list-style-type: none"> - Identify the specific location - Identify and describe management they currently use or could use - Make a judgement on if you think it has/will work. Give at least one reason why. - Statistics - Include appropriate stimulus in the form of maps, diagrams, graphs and photographs.
<p>Conclusion:</p>	<ul style="list-style-type: none"> - Make a statement on the impact of the issue you have chosen - Predict what the future holds and why for your issue

Checklist:

1000-1500 words

All 4 sections answered

Include stimulus in the form of maps, diagrams, graphs and photographs (5-8)