No part of the candidate evidence in this exemplar material may be presented in an external assessment for the purpose of gaining credits towards an NCEA qualification.

91007





Tick this box if there is no writing in this booklet

Level 1 Geography 2020

91007 Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s)

2.00 p.m. Wednesday 18 November 2020 Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s).	Demonstrate in-depth geographic understanding of environments that have been shaped by extreme natural event(s).	Demonstrate comprehensive geographic understanding of environments that have been shaped by extreme natural event(s).

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL parts of the question in this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–10 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Low Achievement

TOTAL

03

INSTRUCTIONS

Name ONE type of **extreme natural event** and an **environmental case study** (or studies) of this event, that you will use to answer BOTH parts of the question in this booklet.

Extreme natural event: Christchurch Earthquake.

Environmental case study(ies): DenGeldoarthquake. Port Hills Fault.

In your answers, you should integrate case study evidence as well as geographic terminology and concepts.

Geographic concepts you may choose to use in your answers include:

Processes

A sequence of actions that shape and change environments.

Environments

May be natural and / or cultural. They have particular characteristics and features, which can be the result of natural and / or cultural processes.

Change

Involves any alteration to the natural or cultural environment. Change can be spatial and / or temporal. Change is a normal process in both natural and cultural environments. It occurs at varying rates, at different times, and in different places.

Interaction

Involves elements of an environment affecting each other and being linked together. Interaction incorporates movement, flows, connections, links, and interrelationships, which work together and may be one- or two-way interactions. Landscapes are the visible outcome of interactions. Interaction can bring about environmental change.

(a) Processes

Processes involve a sequence of actions.

Fully explain the sequence of actions that produced the extreme natural event in your case study environment(s).

In your answer, include:

- geographic terminology
- a geographic concept from page 2
- integrated detailed supporting evidence from your case study (or studies).

earthquake magma then build up of when the stress is released an earthquake occurs. This is what or caused the Christchurch earthearthquake took place 22/02/2011 30 12:51pm it was a 6.3 magnatude earthquake and the fault Port Hills Fault. 153 died due to this earthquake. This caused many people to be left there was a shortage ce telephone service, semerage, power, and more. The most effected Christonurch was where there was +00,000 tonnes of liquefaction. Where many has buildings 904

ASSESSOR'S USE ONLY

and -	turned into green parts
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(b) Effects

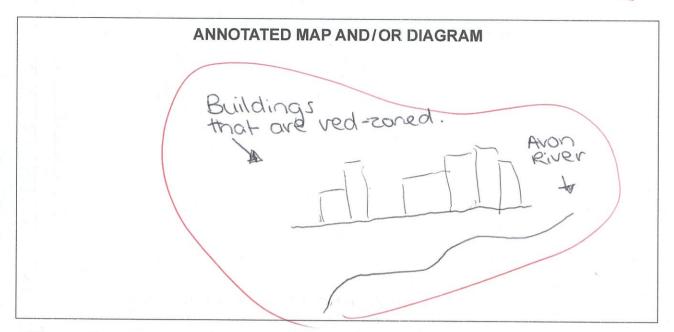
Effects of extreme natural events can occur to both the natural and cultural environment. They can also be positive and/or negative.

Fully explain ONE **natural** effect (on page 7) and ONE **cultural** effect (on page 8) that your chosen extreme natural event had on your case study environment(s).

You may answer in annotated map, diagram, and/or paragraph form.

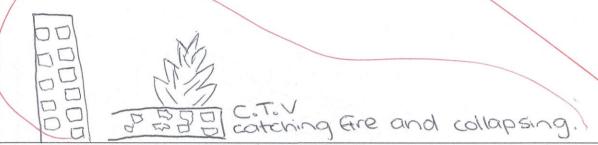
In your answer, include:

- geographic terminology
- a geographic concept from page 2
- integrated detailed supporting evidence from your case study (or studies).



The Christchurch earthquake effected made a natural effect on the priver. The When the earthquake struct, the banks in the river collapsed causing the river to flood. Due to the river flooding the river became unhealthy and this caused the fish to die. And because of the fish dying the birds slowly died out as well because they didn't May have any food. Or the birds that nest close to the river would Of gotten destroyed. Make Due to the river flooding, the soil became weaker and the foundations of buildings collapsed causing many homes to be reduced or turned into green parks.

ANNOTATED MAP AND/OR DIAGRAM



The Christehurch earthquake effected many significant buildings such as, the C.T.V, P.C.C, Christehurch cathedrial and the sourch sanaterium factory. The C.T.V building killed 115 people either from the building collapsing or catching fire. The architect of the C.T.V faked his digree will causing more damage than it should have.

Low Achievement Exemplar 2020

Subject	Geograph	Standard 91007 Total score 0			03
Q	Grade score	Annotation			
	А3	Describes aspects of how extreme natural event(s) shape environments. The partially describe the processes that produced the Christchurch earthquake. There is a basic sequence of events with some evidence provided that is not correct, for example, the death statistic is incorrect. The candidate partially describes how the Avon River flooded when the bank collapsed. This is the only specific reference in their response to their event at then the answer progresses into generic and flow-on effects without any evidence, followed by a link to cultural impacts. A very basic diagram is attempted with minimal labels. The cultural effects are only partially described. Names of buildings and a description of how people died in the CTV building are included. The final sentence about vulnerability is not relevant to the question.		ot all	

SUPERVISOR'S USE ONLY

91007



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High Achievement

TOTAL

04

INSTRUCTIONS

Name ONE type of **extreme natural event** and an **environmental case study** (or studies) of this event, that you will use to answer BOTH parts of the question in this booklet.

Extreme natural event: VOICANIC EVUPTION

Environmental case study(ies): EVVAPTION OF MT TOVOINEVA (1886)

In your answers, you should integrate case study evidence as well as geographic terminology and concepts.

Geographic concepts you may choose to use in your answers include:

Processes

A sequence of actions that shape and change environments.

Environments

May be natural and / or cultural. They have particular characteristics and features, which can be the result of natural and / or cultural processes.

Change

Involves any alteration to the natural or cultural environment. Change can be spatial and / or temporal. Change is a normal process in both natural and cultural environments. It occurs at varying rates, at different times, and in different places.

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ASSESSOR'S USE ONLY

(a) Processes

Processes involve a sequence of actions.

Fully explain the sequence of actions that produced the extreme natural event in your case study environment(s).

In your answer, include:

- · geographic terminology
- a geographic concept from page 2
- integrated detailed supporting evidence from your case study (or studies).

The location of the Taupo Volcanic Zone
lays porrallel to the fault line. At
this coult line is where the Pacieic
Plate Subducts (forced under) the Indo-
Australian plate. Mt Towawera is located
in the tampo toleanic zone Which is
Where the Volcanic eruption process
starts. S domes (Tavaluera, Rualwahia
and Mahra) all erupted on the night of June 10 1886. Since the eruptions
Of June 10 1886. Dince the cryptions
Were basalt exuptions, the magma Would
have been building up deep within
the earth's mantle wood with where Mt
Toronwera is, the earths cryst is
Very thin at only 8-12 km thick. The build up of Pressure and Magina
bad Significant downered the
had finally piereced through the crust. During the eruption, the
host magina came in to contact
With a lot of Water that was
under the surface, This created

a phratomagmatic eruption (an	ASSESSOR'S USE ONLY
extremly violent emption caused by the reaction of magma and water).	
reaction of many and hater	
	-
All of these small details lead	
to a very large explosions.	
The content of the metal of the medical beautiful adjusted the content of the con	
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(b) Effects

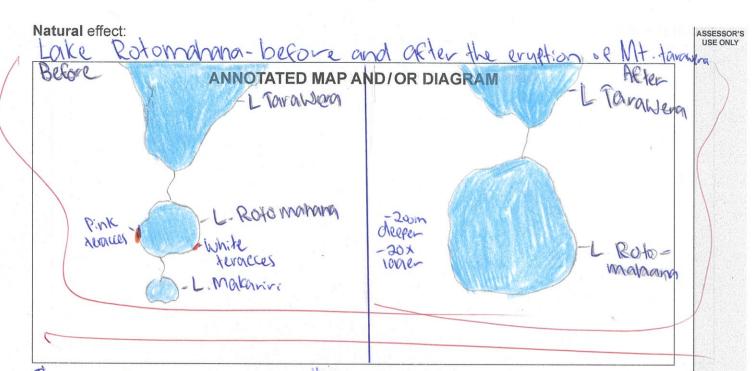
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You may answer in annotated map, diagram, and/or paragraph form.

In your answer, include:

- geographic terminology
- a geographic concept from page 2
- integrated detailed supporting evidence from your case study (or studies).



The natural excects Warman Was am crazy change. Many of the land changed so suddenly. The Phratomagnatic emption completly Opened up Lake Rotomahang. who But also took out low Joined with lake Rotomahana) Lake Makaviri Which can be Seen below take Rotomana in diagram 1. The Stream connecting lake Rotomahana and lake Makariri is no Where to be Seen. The exuption enlarged lake votomahana by larger in area and approximatly 200m deeper. IA Becare 1886, the lake shore Used to have beautiful Pink and White terraces which were shattered during the eruption. The terraces are now burried under thick mud at the bottom of Lake Roto mahana. This is a negative impact.

ANNOTATED MAP AND/OR DIAGRAM

or the discharction or the exuption Townweren left their townism industry Shambles. Since Te Wairoa's Main Sorce money came from the natura the Pink and White terraces Tipitaku forest, there was nothing left iounisti to come and in that, but many tour; Paramoid 40 40 that another eruption occur during their stay. negative) impact and other towns who Profited from aftraction's economy. Without they had very little money damages, insurance and for in general.

High Achievement Exemplar 2020

Subject	Geography		Standard	91007	Total score	04
Q	Grade score	Annotation				
		Describes the processes that produced the Tarawera eruption. The sequence is a bit jumbled but is still evident. There are a few inclusions of case study evidence with use of some good terminology. None of the steps in the sequence have been explained to warrant Merit.				
	A4	Describes how the eruption changed Lake Rotomahana, but there is no explanation as to how it changed. There are some case study examples, and the diagram is clear and shows the change very clearly. To gain Merit they needed to explain how the change occurred.			d	
		Describes the cultural effects of the end and the student clearly understands the student case study evider would have improved their overall res	ne change and nce to gain Me	d impact	from the eruptio	n.