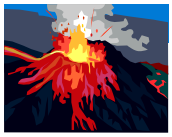

Extreme Natural Hazards

A.S. 90202/ 1.1- Describe an extreme natural event and the human response (3 credits)

This achievement standard is an external which is ultimately assessed in the NCEA examinations at the end of the year. You are required to ***demonstrate knowledge of volcanic eruptions*** including processes, sequence of events and effects on people, economy and the environment. You will also need to ***describe how people respond to the eruption***.

You will need to refer to ***specific case studies*** to support your answers.

In this unit you will need to answer the following focusing questions:

Overview

- ***Why do volcanoes erupt?*** – processes
- ***What happens before, during and after the eruption?*** – sequence of events and the human response
- ***How do volcanic eruptions affect people and the economy?*** - effects
- ***How do volcanic eruptions affect the environment?*** - effects
- ***How do people respond to these events?*** – human response, increasing & decreasing effects

PROCESSES - Describe & Explain why volcanoes erupt.

Part 1

1. **INTERNAL STRUCTURE OF EARTH** By the end of this part I should be able to:

Success Criteria	Done	Teacher check
1. Use a diagram to describe the internal structure of the earth.		
2. Label the 4 main layers and give a brief description of each one		
3. Describe what convections currents are		
4. Draw a diagram showing convection currents in the mantle		
5. Explain how convection currents operate		
6. Provide a world map showing the main plate boundaries & movements		
7. Describe the 3 main types of plate boundaries (constructive, destructive & transform)		
8. Draw a diagram to explain what happens during subduction		
9. Provide a diagram that identifies and labels the main physical features of a volcano (vent, crater, magma chamber, lahar, lava flow etc.)		
10. Find information from case studies to support my answers		

Final Task

Write a paragraph describing (& explaining) the processes that are required for a volcano to erupt. Refer to specific case studies.

End of Part One