

4(a)(i)	<u>Volcanoes</u> are in a roughly circular pattern / around / surrounding the Pacific;	<b>1</b>
4(a)(ii)	Ideas such as:  Both are in the Pacific Ocean / on Pacific plate; Ruapehu is in the Ring of Fire but Mauna Loa is not / Ruapehu is on the edge and Mauna Loa is in the centre / hot spot; Ruapehu is further south / Ruapehu is in S.Hemisphere and Mauna Loa in N. Hemisphere; Ruapehu is further west / Mauna Loa is further East; Mauna Loa is nearer equator; Ruapehu is East of Australia but Mauna Loa is West Of USA;	<b>2</b>
		2 @ 1 mark
4(a)(iii)	Ideas such as:  Subduction / one plate sinks under the other; Oceanic plate is heavier / denser; Destruction of / melting of crust; Build up of pressure; Magma released <u>through</u> weakness / crack etc  Note: Divergent plates idea =0 marks for question.	<b>3</b>
		3 @ 1 mark
4(b)(i)	Ideas such as:  (General) Increase in number of earthquakes over the time period / most earthquakes in 2015; Especially since 2013 / 2014; Little change between 2010–2012 / 13; More variation / fluctuations in 2015;	<b>3</b>
		3 @ 1 mark
4(b)(ii)	Ideas such as:  Evacuation procedures; Buildings which are earthquake / volcano proof – accept details to MAX 2; National earthquake day; Education about what to do during earthquake / volcano / safety drills; Train emergency services; Survival kit / emergency food supply Landuse zoning / exclusion zone; Lava diversion channels; Spray lava with water; Shelters from volcanoes; Wearing masks to protect from dust; Flexible gas pipes / cut offs; Etc.	<b>4</b>
		4 @ 1 mark

4(b)(iii)	<p>Ideas such as MEDCs / LEDCs:</p> <p>Invest more / less money in methods of protection / monitoring; Instigate evacuation procedures more / less effectively; Educate people so that they can protect themselves from the impacts; Provide better healthcare / hospitals / doctors / ambulances; Provide quicker / more efficient rescue services / helicopters Build stronger / weaker buildings; Have better / poor road network; Etc.</p> <p>Do not need LEDC / MEDC stated or comparative answer</p> <p style="text-align: right;">5 @ 1 mark or development</p>	<b>5</b>
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4(c)	<p>Levels marking</p> <p><u>Level 1</u> (1–3 marks) Statements including limited detail which explain why people live close to an active volcano.</p> <p>Job = L1 e.g. of job = L2</p> <p><u>Level 2</u> (4–6 marks) Uses named example.</p> <p>More developed statements which explain why people live close to an active volcano.</p> <p>(Note: Max. 5 if no named or inappropriate example)</p> <p><u>Level 3</u> (7 marks) Comprehensive and accurate statements which explain why people live close to an active volcano, including some specific details.</p> <p><u>Content Guide:</u> Answers are likely to refer to:</p> <p>Fertile soils, Mining / quarrying Tourism, Prepared to take the risks / risks are outweighed by benefits, Geothermal power Friends / family Scientists Can't afford to move</p> <p>Note: Develop each idea for 1 × L2 max.</p> <p>These ideas simply stated = L1, can develop each idea once for L2. Jobs or earn money – use as development once ie 1 × L2.</p> <p><u>Place specific reference is likely to consist of:</u> Locational details, Named areas / features etc. Statistics</p>	<b>7</b>
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