

Lowerhouse Junior School Geography Overview Sheet



<u>Year 4 – How are mountains formed and what causes an</u> <u>earthquake, tsunami or volcano?</u>



Rationale: Mountains arise from tectonic plates colliding, pushing earth upwards. Earthquakes occur when these plates shift suddenly, releasing energy. Tsunamis, massive waves triggered by underwater earthquakes, can devastate coastlines. Volcanoes form when molten rock escapes from beneath the earth's surface, leading to eruptions. Each phenomenon reveals nature's power and beauty.

Substantive Knowledge:

Locational Knowledge

Locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America.

Human and physical geography

Describe and understand key aspects of physical geography, including: rivers, mountains, volcanoes and earthquakes.

earthquakes.	
Overview:	Key Vocabulary
Lesson 1 – Locate the world's countries using	Volcano - A mountain or hill with a crater or vent which
maps. Describe key aspects of physical geography	lava, rock fragments, hot vapour and gas are or have been
(introduction to mountains, earthquakes and	erupted from the earth's crust
volcanoes).	Earthquake - A sudden, violent shaking of the ground,
Lesson 2 – Earthquakes study – causes and effects.	typically causing great destruction, as a result of movements
Lesson 3 – Volcanoes Study – Types and Eruptions.	within the earth's crust
Lesson 4 – Mountains Study – Formation and	Active - Recent history of eruptions, likely to erupt again
Features.	Dormant Have not erupted for a very long time but could
Lesson 5 – Map Skills – Coordinates and Data	erupt again in the future
Collection (use 4-fig grid refs to locate volcanoes,	Extinct - Are not expected to erupt again in the future
mountains, epicentres of earthquakes; collect data	Thematic map A map showing a theme (heat)
on earthquake occurrences or volcanic eruptions).	Natural disaster - A natural event such as flood, earthquake,
Lesson 6 – (assessment lesson - use	hurricane that causes great damage or loss of life
presentation/multimedia software to record and	Tidal wave - An exceptionally large ocean wave caused by a
explain geographical features and processes).	volcanic eruption or earthquake
	Tsunami - A long high sea wave caused by an earthquake
Impact/Assessment	

Impact/Assessment

Most Children will know: • Volcanoes are mainly found around the Pacific 'ring of fire' • Names of volcanoes: Mount Vesuvius, Mount Etna, Krakatoa, Mount Saint Helens, Mauna Loa, Mount Fuji • Earthquakes can happen all around the world but they mainly happen around the Pacific 'ring of fire' • The most powerful earthquake was measured as 9.1 on the Richter Scale and was named Tohoku Earthquake • What are the different types of volcano? • There are 3 types of volcano: active, dormant, extinct • Volcanoes form at the earth's surface whereas earthquakes originate from deep within the earth's crust.