

Types of Extreme Weather			Key Geographical Locations			Vocabulary			
1	Volcanoes	Active, dormant and extinct – cause magma erupts through the Earth’s crust to form lava flows and ash deposits	1	Climate Zones	Polar, temperate, subtropical and tropical regions		1	Dormant active	State of a volcano
			2	Tropic of Cancer and Capricorn	Two lines which show the tropical regions either side of the equator		2	eruption	When the magma explodes through the crust
			3	Equator	Line around the centre of the Earth, dividing the Northern and Southern Hemispheres		3	lava	The hot molten rock
			4	Ring of Fire	Location of most of the world’s volcanoes		4	ash	Powdery substance created when volcanoes explode
			5	Location of tectonic plates	Areas where the plates join – where earthquakes originate		5	magma	Hot fluid rocks under the Earth’s crust
2	Earthquakes	Moving tectonic plates cause earthquakes - significance of fault lines – examples on earth- identify on world map	<b>Effects of Natural Disasters</b>			6	Funnel cloud	Funnel shaped cloud at the core of a tornado	
			1	Homelessness / poverty		7	Seismic waves	An elastic wave in the Earth produced by an earthquake	
			2	Disease / famine		8	crater	Large hollow forming the mouth of a volcano	
			3	Destruction of habitats		9	pumice	Light rock that is formed when lava solidifies	
			4	Economic effects		10	Tectonic plates	Slabs of the Earth’s crust that move causing earthquakes	
3	Tornadoes	Violent rotating column of air extending from a thunderstorm to the ground	5	Need for aid – fundraising		11	fault	When a rock formation is broken	
			<b>Measure of Severity</b>			12	epicentre	Point in the centre of an earthquake	
			1	Earthquakes	Richter Scale	1-10	13	aftershock	Smaller earthquake following a main earthquake
			2	Volcanoes	VEI	Volcanic explosivity index 0-8	14	magnitude	Size of an earthquake
			3	Tornadoes	Fujita Scale	F0-F5	15	twister	Another name for a tornado
4	Tsunamis	Underwater earthquakes cause wave of water – engulfing low lying areas				16	vortex	Whirling mass of fluid or air	
						17	Eye	Centre of a storm - calm	
5	Hurricanes	Tropical storm becomes a hurricane when the winds reach 74mph – occur in the Atlantic Basin – Have a season							

# Extreme Earth Scheme of Work

Session	Key Learning	Activity
1	Learn about the Earth's climate and areas of extreme temperatures.	Locate and label Tropic of Cancer/Capricorn, Equator, Oceans, Continents - use of Atlases
2	To find out about extreme weather conditions across the world.	Match different types of weather to correct description.
3	Art – To recall types of weather facts and to use colour, line and shading to create artistic tornadoes	Complete tornado art shading
4	Learn about earthquakes, what causes them (plate tectonics) and how they are measured	Measuring earthquakes activity sheet- sorting the Mercalli scale
5	Learn about how volcanoes are formed	Draw/complete/label volcano cross section
6	Learn about where volcanoes are located (Ring of Fire) and how they affect peoples' lives	Group work to debate 'for and against' of living near volcanos
7	Understand how tsunamis are formed and the devastation caused by them	Use UN Disaster Risk Reduction computer modelling simulator to protect villages from Tsunami. Or create a poster on what to do in the event of a tsunami .
8	Art - To explore and recreate Hokusai's 'Great Wave'.	Create Hokusai great wave – using cutting and layering techniques and templates
9	Understand what causes Tornadoes and their effects	Design your own TIV – Tornado Intercept Vehicle
10	Learn about hurricanes and their effects	Plan a hurricane preparation kit to be used in event of a hurricane