Geography





Big Idea; The natural world is not always predictable – even though humans try their best to understand what's going to happen

What should I already know?

- Volcanoes are example of physical features.
- The Earth's crust is made up of tectonic plates.
- There are different types of rocks, formed by physical processes.
- The continents and oceans, and be able to locate these on a map.

What will I know by the end of this unit?

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The theory of plate tectonics can be used to explain where volcanoes are located in the world:	 The Earth's crust is broken up into interlocking 'tectonic plates'. The tectonic plates move (a few centimetres a year) towards, away from, or sliding past, each other. This results in volcanoes and earthquakes at their boundaries. An example of diverging plates is the mid-Atlantic ridge, where the Eurasian plate and the North American plate are moving apart. Iceland sits on this ridge and is very actively volcanic.
How volcanoes are	Along the lines of the tectonic plates, where the Earth's crust is thinner
formed:	and weaker, molten material can push through to the surface and erupt as a volcano.
	 An example of this is where plates are pulling apart at a plate boundary.
Volcanoes can be	A dormant volcano is one that has been inactive for a long time, but it
dormant, active or extinct	could erupt again the future.
	An extinct volcano is one which will never erupt again. An extinct volcano is one which have a recent history of a proting and a second history of a proting a second history of a second hi
The physical Coography	An active volcano is one which has a recent history of eruptions. All aims and is a small island 0.4 Miles from Paykingilly the applied.
The physical Geography of Heimaey is different to	 Heimaey, is a small island 94 Miles from Reykjavik, the capital of Iceland.
Wymondham	 In 1973 the Eldfell volcano erupted, all the residents of Heimaey had
	to be evacuated
	The land is mountainous, with dark, volcanic soil.
	 There are no active volcanoes in the UK but there are extinct volcanoes.
Humans live near, and	 Volcanic land is very fertile and good for farming.
may choose to visit volcanoes for a number of	 Mining may also take place in the area around a volcano as it can be rich in mineral deposits.
reasons.	Energy can be generated from the Earth's heat (geothermal energy)
	Tourism creates jobs for people, and lots of people want to visit
	volcanic regions to see the landscape and wildlife.
Humans try to measure	Volcanologists study volcanoes to understand how they work.
and predict volcanic	Build-ups of pressure can take place deep underground and inside a
activity, but can't control it.	volcano over many years.
	 Seismographs detect vibrations, movements and tremors underground.
	Satellites can also track and calculate movement above ground.
	Cities or towns near volcanoes often have evacuations plans in case
	of an eruption.

Key vocabulary:

Volcano, crater, crust, dormant, extinct, erupt, fertile, tectonic plate, magma, lava, tourist. Geothermal energy, seismology, volcanologist, divergent plate boundary, satellite.