



# Geography Knowledge Organiser:

## Human and physical geography: natural disasters



### Overview



We revisit world maps and look at some of the natural disasters that occur around the world. Volcanoes and earthquakes are considered in terms of what causes them and the effects and responses that humans have to them and how to prepare and survive them.



#### Human geography (people)



Why people continue to live where natural disasters are likely

How people are affected by natural disasters...the social and economic effects

What people can do to protect themselves



#### Physical geography (nature)



Plate tectonics = how the earth's crust is like a jigsaw and where the pieces meet there is friction leading to volcanoes and earthquakes.

Volcanic eruptions can be spectacular or much more ordinary and slower moving.

Earthquakes can be small tremors or devastating quakes with tsunamis, killing many people and destroying cities.

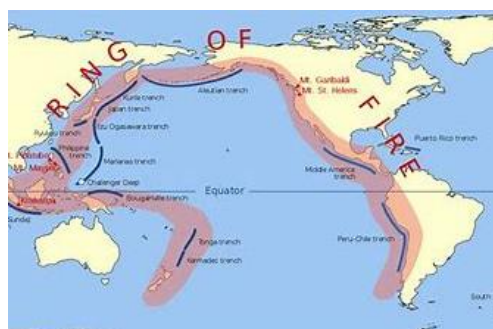


#### Main skills and or fieldwork



Locational map skills e.g. using an atlas, google earth, compass points, keys and scale to locate areas prone to natural disasters

The Ring of Fire = the area around the Pacific tectonic plate where lots of earthquakes and volcanic eruptions occur



#### Other key vocabulary



magma

the hot liquid under the earth's surface

lava

name given to magma once it comes out of the ground

scoria

the rocks thrown out of a volcano

pyroclastic flow

the gas, lava and rocks that come out of a volcano when it is erupting

seismograph

machines which monitor the movement of the earth's surface

evacuation

moving away from the danger of a disaster

epicentre

The centre of an earthquakes eruption

magnitude

size in relation to how big an earthquake is



#### Big questions/ideas



#### Curriculum links and further research



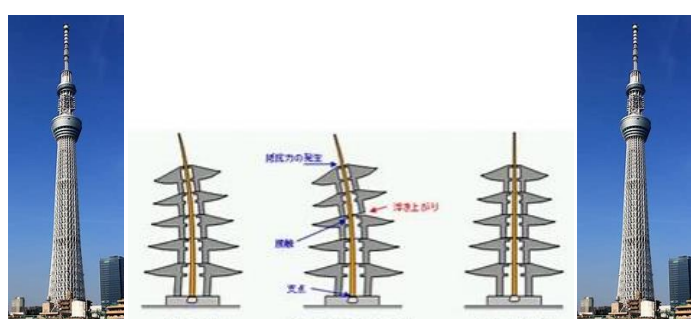
What causes natural disasters?

What damage do they cause?

What are the effects?

How can humans prepare and survive them?

How the Japanese lead the way with earthquake proof building



❖ Christian Value...wisdom of how best to protect against natural disasters and how to respond to them...compassion.

❖ Art/DT – making volcanoes

❖ English – writing a letter/diary to describe/explain the eruption of Mt St Helens

❖ History – link to Pompeii

❖ RE – why does God allow disasters?

❖ Maths – statistics and grid references

❖ PSCE – responding to disasters

❖ Science – the study of these disasters (e.g. volcanologists) and technology such as seismographs and the engineering of buildings to withstand them

Why not visit the Newsround website about volcanoes and earthquakes?

[http://news.bbc.co.uk/cbbcnews/hi/find\\_out/guides/tech/volcanoes/newsid\\_1768000/1768595.stm](http://news.bbc.co.uk/cbbcnews/hi/find_out/guides/tech/volcanoes/newsid_1768000/1768595.stm)

[http://news.bbc.co.uk/cbbcnews/hi/find\\_out/guides/tech/earthquakes/newsid\\_1894000/1894934.stm](http://news.bbc.co.uk/cbbcnews/hi/find_out/guides/tech/earthquakes/newsid_1894000/1894934.stm)

OR Nina and The Neurons?!

<https://www.bbc.co.uk/cbeebies/makes/nina-and-the-neurons-volcano>

