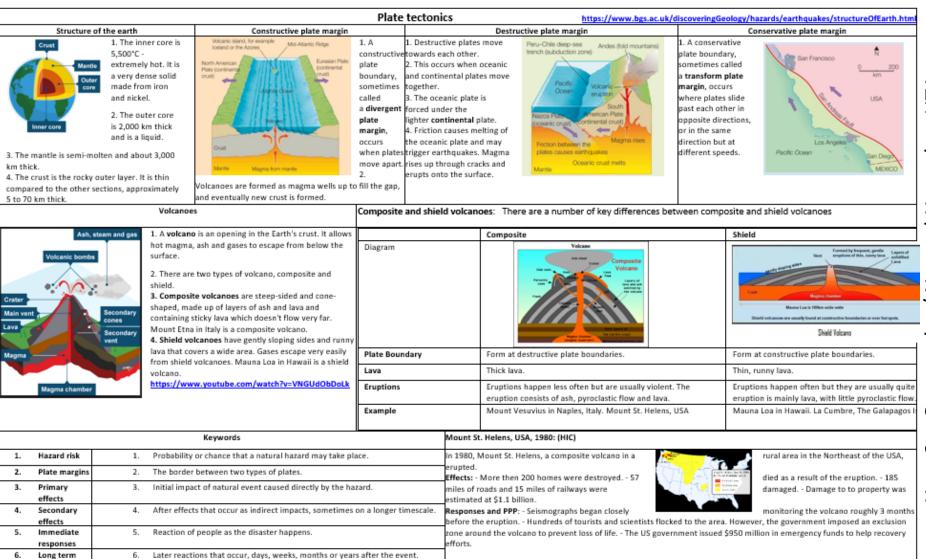


responses





Measuring earthquakes Earthquakes are measured

https://www.bgs.ac.uk/discoveringGeology/hazards/earthquakes/structureOfEarth.htm Plate tectonics

Causes of Earthquakes The effects of an earthquake:

Each year scientists record over 20,000 earthquakes. Most of these earthquakes are small and are not noticed by ordinary people.

according to two different scales: the Richter scale and the Mercalli scale.

Some argue that the Mercalli scale is not as reliable as the Richter scale because it is subjective and can vary according to where you are. The Mercalli Scale (without the final 2 levels):

caused when two plates become locked causing friction to build up. From this stress, the pressure will eventually be released, triggering the plates to move into a new position. This movement causes energy in the form of

Earthquakes are

seismic waves, to travel from the focus towards the epicentre. As a result, the crust vibrates triggering an earthouake.

The damage of an earthquake depends on the ability of the country to predict, prepare for and protect people from the effects of the earthquake

Short Term:

People may be killed or injured. Homes may be destroyed. Infrastructure may be disrupted. Water supplies may be contaminated.

Long Term:

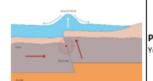
Disease may spread. People may have to be rehoused, sometimes in refugee camps.

Tsunami Earthquake Management

Tsunamis are a series of ocean waves which are caused when earthquakes or other disturbances displace a large amount of water. (Other disturbances can include volcanic eruptions, underwater explosions and meteorite impacts!)

https://www.usgs.gov/media/images/modified-mercalli-intensity-mmi-scale-assigns-intensities

- Tsunamis are not caused by tides, and so it is technically incorrect to refer to them as "tidal
- Tsunamis are usually barely noticeable in water, but get larger and more powerful as they approach
- As a result, tsunamis can have a huge effect on countries which are hit by them.



Predicting

Methods include:

- Satellite surveying (tracks changes in the earth's surface)
- Laser reflector (surveys movement across fault lines)
- Water table level (water levels fluctuate before an earthquake).
- Scientists also use seismic records to predict when the next event will occur.

Protection

You can't stop earthquakes, so earthquake-prone regions follow these three methods to reduce potential damage:

- Building earthquake-resistant buildings
- Raising public awareness education (great shakeout, USA)
- Improving earthquake prediction

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Keywords		
Epicentre	The point directly above the focus, where the seismic waves reach first	In
Seismic Waves	(Energy waves) travel out from the focus.	Ef
Focus	The point at which pressure is released	
Seismometer:	A machine which detects and records vibrations in the earth's crust.	se
Prediction:	Attempting to know when an earthquake will happen. This can be done by measuring vibration in the crust and by studying previous major earthquakes	s .] Re
Protection:	Trying to reduce the damage people suffer during an earthquake. This could include building houses in safe areas.	- E

aiti. 2010: (LIC)

a 2010. Haiti experienced an earthquake measuring 7.0 on the richter scale riginating from the boundary between the Caribbean and North American plates. ffects:

- 220.000 people died.
- l million people were made homeless and the main port, airport and roads were everely damaged.
- 2 million people had no food or clean water.
- Many homes and businesses were looted because of a lack of government presence.

esponses and PPP:

- Haiti has no history of earthquakes. As a result, their buildings were not prepared and people were not drilled.
- Other countries, such as the USA, sent aid to help, However, the damaged airport found it difficult to cope.
- Due to a weak and poor government people are still living in camps almost 10 years after the earthquake.