



## What makes the earth angry?

## Background Understanding

## Volcanoes

- Volcanoes are made when pressure builds up inside the earth. This affects the earth's crust causing **magma** to sometimes **erupt** through it.
- Active volcanoes have **erupted** in the last 10 000 years.
- Dormant volcanoes haven't **erupted** in the last 10 000 years but may erupt again.
- Extinct volcanoes aren't expected to **erupt** again.



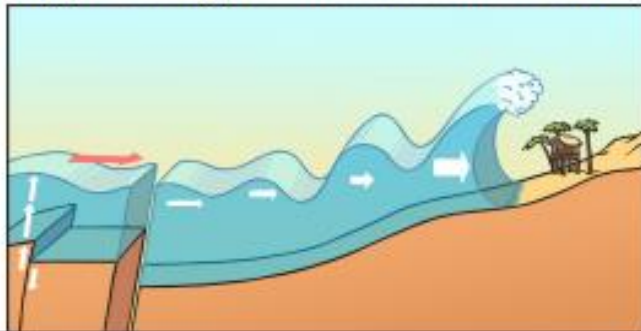
## Tornadoes

- A tornado is a swirling funnel of air that forms when warm air rises from near the ground into big **cumulonimbus clouds**.
- There can be thunder and lightning at the same time.
- You can see tornadoes due to the dust and water droplets caught in the clouds.
- Storm chasers are film-makers and scientists who head towards the storms. They film the tornadoes and collect data about them.
- Most tornadoes happen in Tornado Alley in America – more than 500 each year.
- Tornadoes can happen in the UK but only around 30 per year.



## Tsunamis

- A tsunami is a giant wave caused by a huge earthquake under the ocean.
- The earthquake causes a large amount of water to be displaced very quickly causing a series of waves.
- As the waves travel through shallower water near land, they get bigger and bigger. The wave crashes onto the land causing devastation to buildings and sometimes even lives.



## Earthquakes

- Earthquakes are caused when the earth's **tectonic plates** suddenly move.
- Most earthquakes occur near the **tectonic plate boundaries**.
- Earthquakes can cause lots of damage to roads, buildings and property.



## Key Vocabulary

<b>Erupt</b>	To suddenly burst out causing lava to explode out of the earth's surface.
<b>Lava</b>	The molten, fluid rock that erupts from a volcano.
<b>Magma</b>	Hot fluid or semi-fluid below the earth's crust.
<b>Molten</b>	Something made into a liquid by heat.
<b>Tectonic plates</b>	Plates that make up the surface of the Earth. Study of their movement is called plate tectonics.
<b>Active</b>	A volcano that has erupted in the last 10,000 years.
<b>Dormant</b>	A volcano that hasn't erupted for 10,000 years but may erupt again.
<b>Extinct</b>	A volcano that is not expected to erupt again.
<b>Tsunami</b>	A giant wave caused by a huge earthquake
<b>Earthquake</b>	Caused when the earth's tectonic plates suddenly move
<b>Tornado</b>	A swirling tunnel of air that forms when warm air rises from near the ground into big cumulonimbus clouds
<b>Cumulonimbus clouds</b>	Huge clouds of air that are part of a tornado

