## YEAR 9: WHY IS OUR PLANET SO DANGEROUS? **KNOWLEDGE ORGANISER**

## **Key Terms**

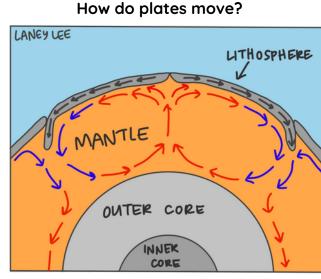
Epicentre: The point on the ground surface directly above the focus of an earthquake.

Focus: The point underground where the earthquake is triggered. Seismic waves: Energy released from an earthquake

Tsunami: A destructive wave caused by an underground earthquake or volcanic eruption

Fault: A tear or fracture in the earth's crust





Convection currents: Hot magma rises in the mantle, heated by the core, when it reaches the crust it cools and begins to sink back down. This causes the plates to move.

## C.L.O.C.C. your description

- **C Compass points** Use your compass points is it located in the north, south, east, west?
- L- Latitude line Is it located near equator, Tropic of Cancer, or Tropic of Capricorn?
- **O Oceans/Seas** What oceans or seas are nearbu?
- C- Continents What continent is it located in?
- **C- Country -** What countries are nearby OR what country is it located in?

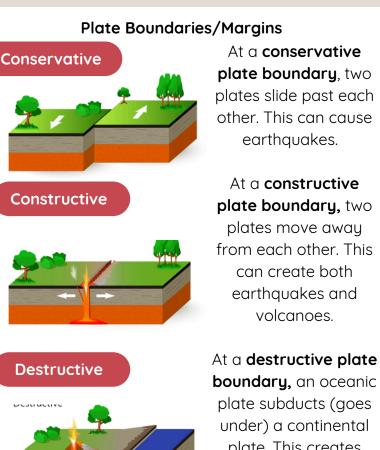


plate subducts (goes plate. This creates both earthquakes and volcanoes.

## Volcano Management

**Gas emission monitors:** These examine the amount of different gases being released by the volcano, sometimes increased gas emissions can be an indication a volcano may erupt

**Seismographs:** These monitor the amount and size of earthquakes, this is tracked as increased earthquake activity can be an indicator of a volcanic eruption, as the earthquakes indicate the movement of the magma in the volcano.

**Tiltmeters/Satellites:** The size and shape of the volcano is watched all the time from satellites in space and tilt meters on the ground, this allows us to see if the volcano starts budging as it fills up with lava as this can be a sign that an eruption is coming.

Hazard Zone Mapping: Areas surrounding a volcano can be divided up into zones. The zones nearest the volcanoes are the areas most at risk and during a moderate eruption, people would be completely evacuated.

