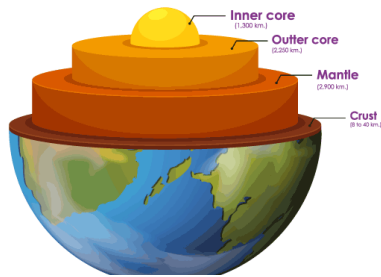
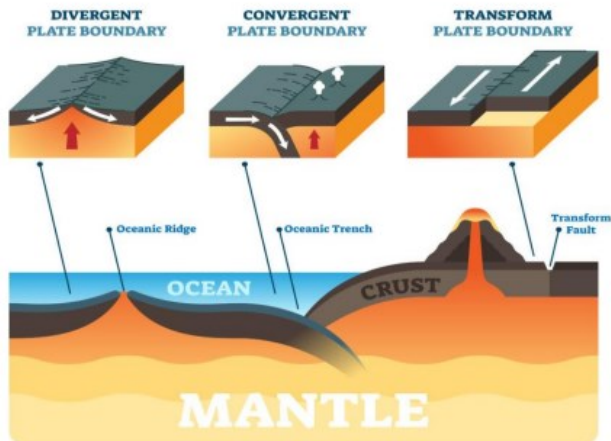


# Natural Disasters Knowledge Organiser Year 3/4

## THE LAYERS OF EARTH



## PLATE BOUNDARIES



Some of the world's most famous volcanoes?

- Mount Vesuvius, near Naples, Italy
- Krakatoa, Indonesia
- Mount St. Helens, Washington, USA
- Mount Tambora, Indonesia
- Mauna Loa, Hawaii
- Eyjafjallajökull, Iceland

<b>Volcano</b>	An opening in the Earth's crust from which lava, ash, and hot gases flow or are ejected during an eruption. Usually a cone shaped mountain.
<b>Magma</b>	Hot fluid or semi-fluid material below or within the earth's crust from which lava and other igneous rock is formed on cooling.
<b>Lava</b>	Lava is a liquid, that cools into rock, which is a solid.
<b>Earth's Crust</b>	A thin shell on the outside of the Earth.
<b>Tectonic Plates</b>	pieces of the Earth's crust
<b>Earthquake</b>	A sudden violent shaking of the ground, typically causing great destruction, as a result of movements within the earth's crust or volcanic action.
<b>Seismic Waves</b>	A wave that travels through the Earth.



## TYPES OF ROCKS

### Igneous Rocks



Magma is molten rock beneath the surface of the earth. When magma cools and solidifies at or near the surface, it creates igneous rock.

### Sedimentary Rocks



As bits of minerals settle into layers over thousands of years, the weight of water and the layers of sediment above press down and cement the minerals into sedimentary rock.

### Metamorphic Rocks



When sedimentary or igneous rocks are subjected to extreme pressure and heat, their mineral structures transform, resulting in metamorphic rock.

## 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.



## 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.

