

# Extreme Earth Knowledge Organiser Year 4

## Key vocabulary

**Hurricane** – an intense tropical storm with powerful winds and heavy rain. Other names for a hurricane include cyclone, typhoon and tropical storm.

**Eye of the storm** – a relatively calm, clear area at the centre of a hurricane.

**Active volcano** – an active volcano is one that has erupted recently, and there is the possibility that it may erupt again.

**Dormant volcano** – a dormant volcano is one that has not erupted for a long time, however, it may still erupt in the future.

**Extinct volcano** – an extinct volcano is one which hasn't erupted in at least 10,000 years, and that scientists don't think will erupt again for a very long time.

**Molten** – something made into a liquid by heat.

**Magma** – hot fluid or semi-fluid below the earth's crust.

**Tectonic plate** – segments of the Earth's crust that move in relation to one another which can cause earthquakes or volcanic eruptions.

## Geography Knowledge

- Locating the key tectonic plates.
- Naming and understanding the different layers of the earth.
- Formation of different volcanoes.
- Causes of tsunamis, earthquakes and tornadoes.
- Human and physical impact of extreme weather.

## History Knowledge

- Causes and effects from previous natural disasters.
- Boxing day Tsunami 2004.
- Pompei 79 AD.

## Mercalli Scale

1. Instrumental	Not felt by people. It can only be measured by a seismograph.
2. Weak	Hanging objects might swing.
3. Slight	People can feel this, but many might not realize it's an earthquake. It feels like a passing truck.
4. Moderate	People indoors can feel it. It might wake someone up from their sleep.
5. Rather Strong	Almost everyone can feel this. Dishes might break. It feels like a train passing close to a house.
6. Strong	Everyone can feel this. People may feel scared and run inside. Property may become slightly damaged.
7. Very Strong	It becomes difficult to stand. Furniture may break and buildings may be moderately damaged.
8. Destructive	Normal buildings will be very damaged. Specially designed structures may only have slight damage.
9. Violent	All buildings will be damaged. People may feel very worried. Cracks may appear in the ground.
10. Intense	Railways will bend. Many buildings will be destroyed.
11. Extreme	Bridges will be damaged or destroyed. There will be wide cracks in the ground. Water and gas will not flow.
12. Cataclysmic	Total destruction. The ground moves in waves or ripples.

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