

Learning Organiser: Why do some earthquakes cause more destruction than others?

Y3 Geography Knowledge Organiser Autumn Term

Key objective

Understand what creates an earthquake and the factors which determine the number of deaths and level of destruction they are likely to cause.

Important locations I will visit



New Zealand



Haiti



Chile

Important things I will know and understand

What causes an earthquake.

The distribution of earthquakes occurring around the world.

Why earthquakes happen at some locations but not others.

How the magnitude of an earthquake is measured.

Why earthquakes with the greatest magnitude do not necessarily cause the most deaths and destruction.

What causes a volcano.

Why volcanoes and earthquakes often occur at the same locations around the world.

The location of the 'Pacific Ring of Fire' and why it is a hot spot for earthquakes and volcanoes.

The location, cause and effects of the Christchurch (New Zealand) earthquake of 2011.

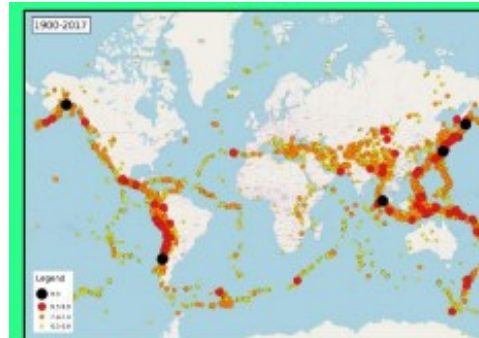
Important maps I will study



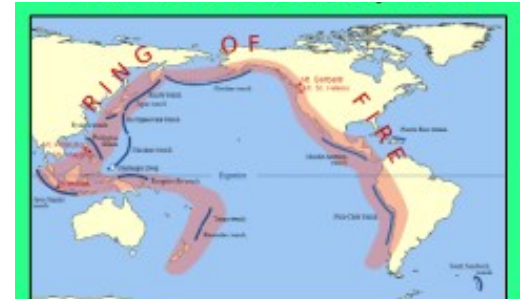
Tectonic plates of the Earth's crust

Important vocabulary I will learn

Earthquake	the sudden shaking of the ground which happens when masses of rock change position along a fault in the earth's crust
Strata	layers of rock
Epicentre	the point on the Earth's surface directly above where an earthquake happens underground
Richter scale	how the magnitude or energy released by an earthquake is measured
Projection	an estimate of what might happen in the future based on what is happening now
Pattern	how objects are arranged or laid out on the earth's surface
Tectonic plate	one of the large moving sections of the Earth's crust
Remote	a faraway place situated a long distance from centres of population
Crust	the thin outermost layer of the Earth made of solid rock
Mantle	the very thick layer of rock that lies between the Earth's crust and its central core
Core	the very hot centre of the Earth which is solid on the inside and liquid on the outside
Volcano	a landform (usually a mountain) from which red hot liquid rock called magma erupts
Fault	a crack in the earth's crust particularly between two tectonic plates



Distribution of earthquakes



Location of the Pacific Ring of Fire