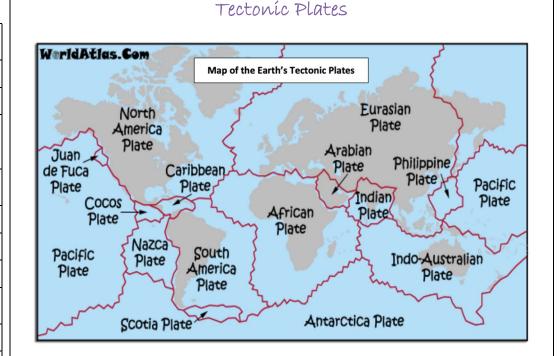
I am learning to.....

- Identify what tectonic plates are
- Explain what earthquakes and volcanoes are
- Use an atlas to locate and label different countries and continents in the Northern and Southern Hemisphere
- Locate the key physical characteristics and relate these features to tourism.

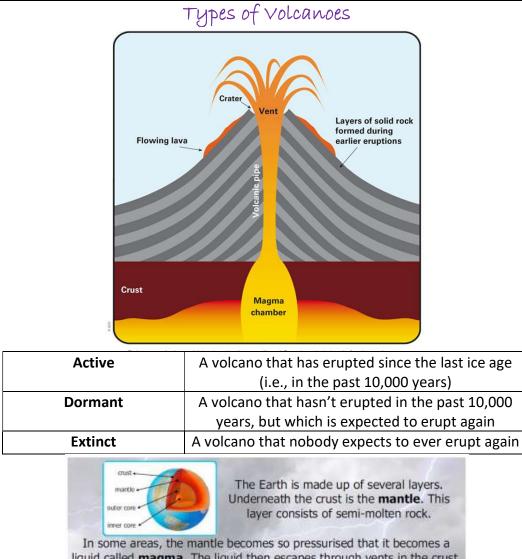
Key Vocabulary:	
Crater	A cup-shaped depression in the surface of the earth,
crust	caused by volcanic activity. The Earth's crust is its outer layer.
Urhst	
core	The central part of the earth, beneath the mantle.
earthquake	A sudden violent shaking of the ground, typically
	causing great destruction, because of movements
	within the Earth's crust or volcanic action.
epícentre	The point on the Earth's surface at the centre of an
	earthquake.
ínner core	The Earth's inner layer of solid rock.
magma	A molten substance beneath the Earth's crust.
magnítude	The strength of an earthquake.
mantle	Under the crust is the mantle forming about half of
	the Earth.
outer core	A layer of the earth that is semi-molten rock.
Ríchter scale	A scale to measure the magnitude of an earthquake
tectoníc plates	The Earth's crust is divided into sections which can
	move and are called tectonic plates.
seismic waves	An elastic wave in the earth produced by an
	earthquake or other means.
semíologísts	A scientist who studies earthquakes.
volcanic eruption	An opening in the earth's crust from which lava, ash
	and hot gases flow or are ejected during an eruption



What Are Tectonic Plates?

The Earth's surface is called the crust. It is made up of different rocky sections called tectonic plates, which fit together like a puzzle covering earth.

Tectonic plates are located all over the world. They cover the Earth's inner layers and act as a sort of shell below the ground and the sea. The plates that are below the continents (land) are known as continental plates. The plates that are covered by ocean are called oceanic plates. These are thinner and heavier. There are seven major tectonic plates that cover the earth.

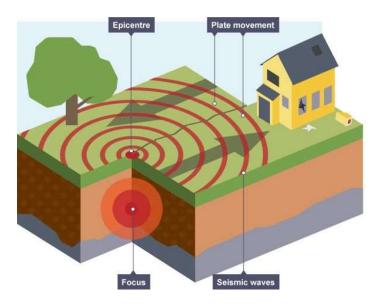


liquid called **magma**. The liquid then escapes through vents in the crust. This is what a volcano is.

The magma builds up in a magma chamber until the pressure is too much and it has to be released.



Earthquakes



Why Do Earthquakes Happen?

- Earthquakes usually occur on the edges of large sections of the Earth's crust called tectonic plates. These plates slowly move over a long period of time. Sometimes, the edges, which are called fault lines, can get stuck, but the plates keep moving.
- Pressure slowly starts to build up where the edges are stuck and, once the pressure gets strong enough, the plates will suddenly move causing an earthquake.

Measuring Earthquakes

- Scientists, known as seismologists, use the Moment Magnitude Scale (MMS) to determine the magnitude (strength) of an earthquake.
- The MMS measures the total energy of an earthquake, called the seismic moment.