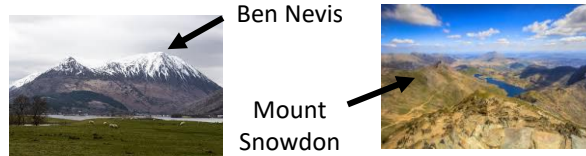


Year 3: Genius Geology

1. Terms	Definitions
Metamorphic	Formed from pressure or heat, e.g. marble
Sedimentary	Tiny pieces of rock and animal skeleton are pressed together, e.g. chalk
Igneous	Magma or lava from a volcano cools, e.g. granite
Seabed	The bottom of the sea
Decay	When a material rots
Earthquakes	When the ground suddenly shakes, due to tectonic plates moving.
Tsunamis	A very high sea wave caused by an earthquake in the ocean.
Earthquake epicentres	Where the pressure is released – the closer to the epicentre, the stronger the tremors.

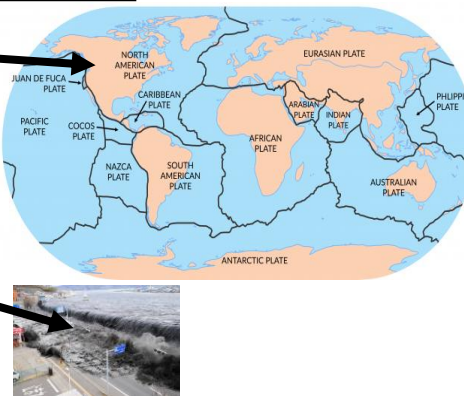
6. The Highest mountains in the UK

1. Ben Nevis, Scotland
2. Mount Snowdon, Wales
3. Carrauntoohil, Ireland
4. Scafell Pike, England



5. Plate boundaries: tsunamis, earthquakes and volcanoes

- The Earth is made out of gigantic, rock jigsaw pieces called tectonic plates.
- If they rub against each other, they can create a tsunami, earthquake or, eventually, form a volcano or mountains.
- In March 2011, in Japan, there was a big earthquake under water, which made a tsunami.
- Nearly 16,000 people died and there was a lot of damage.



2. Rocks and Soils

- Rock is made when soil and other organic material (leaves, animal bodies etc) decay (rot).
- There are three types of rock:

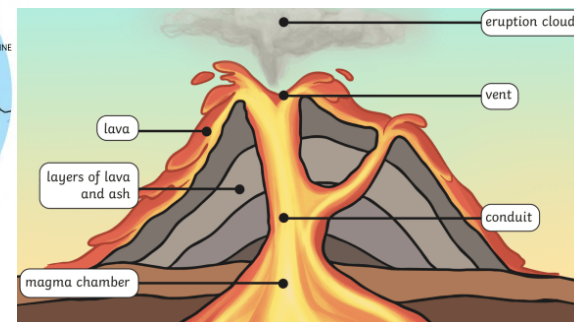
Metamorphic – hard	Sedimentary – softer, absorbs water	Igneous – very hard

3. Fossils and Mary Anning

- Fossils were formed millions of years ago.
- When plants and animals died, they fell to the seabed.
- They became covered and squashed by other material, which leaves an imprint on the rock.
- Mary Anning discovered the first fossil of a dinosaur in 1823.
- She found the fossil in Lyme Regis, which is where she lived.
- There are so many fossils in this area (the Jurassic Coast) because, 200 million years ago, it was actually under water!



Parts of a volcano



4. Pompeii

- Pompeii was a Roman town in Italy.
- On the 24th August 79AD, Mount Vesuvius erupted and the whole town was buried in ash and rock.
- Most of the people that lived there died.
- People still live on Mount Vesuvius because lava helps soils become rich & fertile for crops.