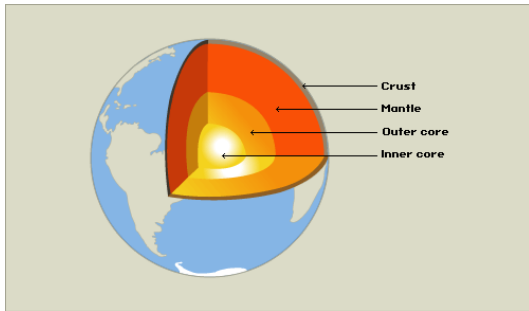


Yr 9 Exam – Key Information

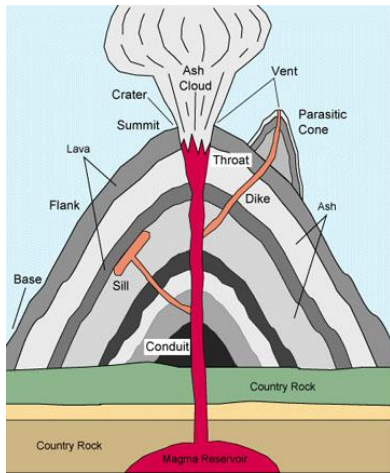


Crust - solid, oceanic crust 15km thick, continental crust up to 30-80km thick

Mantle - Semi-liquid layer (Blue tack)- convention currents drag the crust above 2,900km thick

Outer Core - Liquid layer - movement in this layer causes magnetic field - mainly iron

Inner Core - Solid layer - due to the pressure of the weight of layers above - mainly iron



Parts of a Volcano

Pyroclastic flows - ash & air

Lahars - mud flows

Types of volcanoes

Shield volcanoes

- wide, formed by runny lava - few explosions

Composite Volcanoes

- steep sided, formed by sticky lava - explosive

Ash & Cinder Cone

- steep sided, formed by layers of ash and cinders

Caldera

- when a magma chamber collapses and the crust above deforms into a large crater/depression

Active (- erupting), Dormant (- will erupt), Extinct (-won't erupt again)

Reasons why people live next to a volcano

- Fertile soil - Farmland
- Geothermal heat (Steam and Geysers)
- Precious Metals and gems
- Sulphur collected to make gunpowder and matches
- Tourism - Skiing, views, Lava Souvenirs and mountain air. Hot mud baths in health spas

Table showing Primary & Secondary effects of a volcano.

Primary effects – short term	Secondary effects – long term
1.tremors – buildings fall down	1. homelessness
2 ash cloud – blocks out sunlight	2. weather changes - temperature drops
3 people injured/killed	3. loss of skills and income to families
4 lava flow – destroys local area	4 creates good farm land and building material

Mt St Helens Eruption 1980 - Notes

Dormant for 120 yrs (1857)

March 20th 1980 – earthquake, 1st of 10,000 tremors

Growth of bulge – north side (2m a day – grows to over 100m)

March 31 – exclusion zone 20 miles – Harry Truman refuses to move from his hotel

18th May Large tremor (5.1 on Richter Scale)

Landslide of bulge – 100mph – Spirit Lake filled

Explosion (half of North side of mountain) –

Glowing cloud (Pyroclastic flow) blasts out at 700mph

370 miles squared blasted

Ash cloud falls on surrounding area turning day into night.