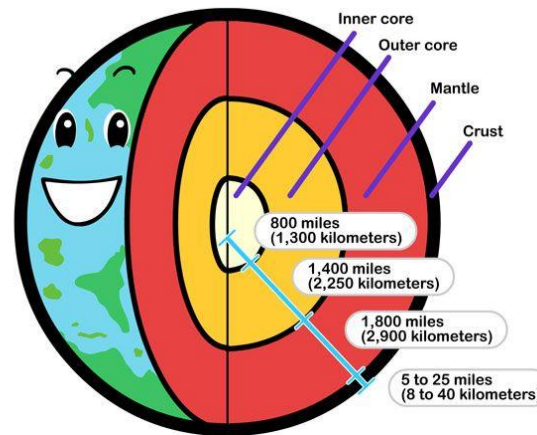
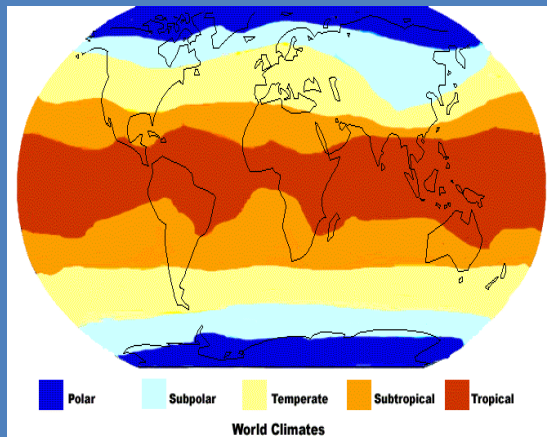


Climate zones

There are 4 major climate zones:

- Tropical zone from 0°-23.5°
- Subtropics from 23.5°-40°
- Temperate zone from 40°-60°
- Cold zone from 60°-90°



Homework tasks

Due: Monday 23rd January

- Make a 3D model showing the layers of the Earth.
- Write a newspaper report about the effects of flooding in the local area.
- Create your own natural hazard board game with rules.
- Film a TV commercial to let people know what to do if an earthquake hit.
- Create your own task linked to the topic.

Famous Volcanoes Fact Cards

Mount Vesuvius



Location: Naples, Italy, Europe

Highest Point: 1281m

Eruption Activity: The last instance of an eruption was in 1944. Arguably, the volcano's most famous eruption was in AD 79 which destroyed the Ancient Roman cities of Pompeii and Herculaneum.

Did you know? A famous account exists, written by the Roman author Pliny the Younger, on the AD 79 Vesuvius eruption.

Famous Volcanoes Fact Cards

Mount St. Helens



Location: Washington, USA, North America

Highest Point: 2549m

Eruption Activity: Mount St. Helens' famous major eruption was in 1980 and is considered to be one of the deadliest in US history. An earthquake triggered a major landslide, followed by the volcanic eruption.

Did you know? Two years after the 1980 eruption, a large area around the volcano was designated as a National Monument. Visitors can now view the crater and the effects of the landslide, while scientific study can be undertaken of the volcano itself.

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Famous Volcanoes Fact Cards

Krakatoa



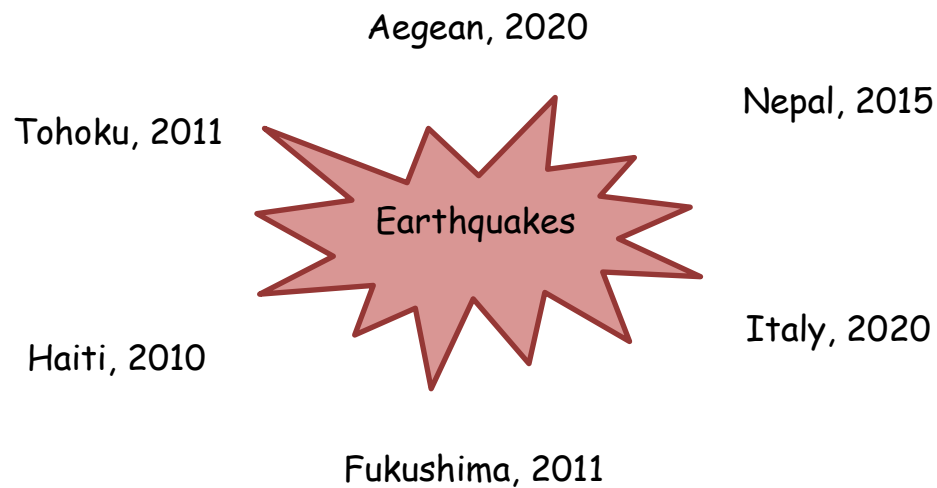
Location: Rakata Island, Indonesia, Southeast Asia

Highest Point: 813m

Eruption Activity: The eruption of 1883 created so much ash and dust that the region was plunged into darkness for two and a half days. A series of tsunamis was triggered by the event, which reached as far away as South America.

Did you know? Explosions were said to be heard over 2000 miles away in Perth, Australia when the 1883 eruption occurred.

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Key vocabulary

| | |
|------------------|-------------------|
| Active volcano | Composite volcano |
| Compound volcano | Extinct volcano |
| Dormant volcano | Biome |
| Core | Crater |
| Crust | Lava |
| Magma chamber | Mantle |
| Earthquake | Richter scale |
| Tsunami | Tectonic plates |
| Epicentre | Mercalli scale |
| Arid | Tropical |
| Climate zone | Ring of fire |

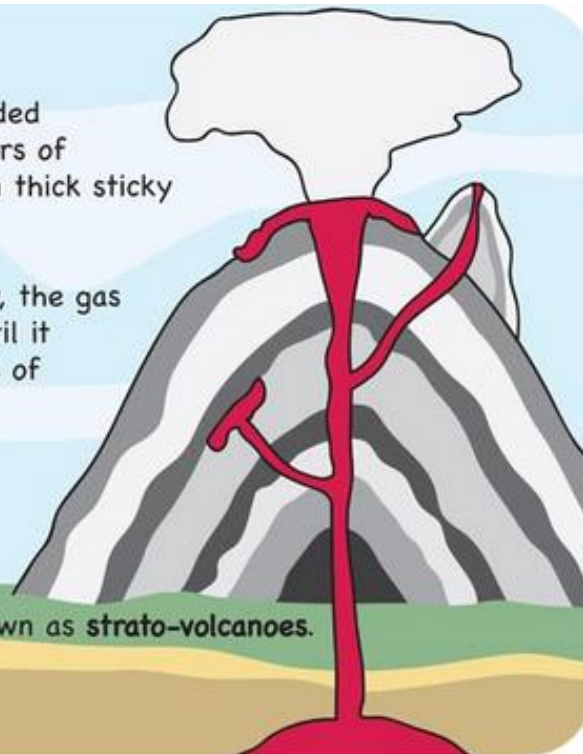
Composite Volcanoes

Composite volcanoes are steep-sided volcanoes composed of many layers of volcanic rocks, usually made from thick sticky lava, ash and rock debris.

As the magma is thick and sticky, the gas cannot escape, so it builds up until it explodes sending out huge clouds of burning rock and gas.

Examples include **Mount Fuji** in Japan and **Mount St. Helens** in Washington (USA).

Composite volcanoes are also known as **strato-volcanoes**.



Key questions

1. Name and locate two volcanoes in an atlas?
2. Explain how an earthquake and volcano occur in as much detail as you can.
3. Explain how hills/mountains/coasts/ rivers have changed over time. Have humans impacted this?
4. What is the ring of fire?
5. Name the 5 main biomes. Which of these could be found in South America?
6. Art: can you name another artist and experiment in their style?
7. DT: explain how your product meets the requirements of your original specification.