Year 8
Subject: Geography
Topic/Unit: Violent Volcanoes
When: HT2

Huntington School
Learn and succeed

Overview: This topic focuses on the physical processes that result in hazardous events. The aims of this topic are to develop an understanding of the tectonic processes different places, the impacts of hazard events and how we can manage these events. The topic focuses on the hazard of volcanic eruptions and considers why people continue to live in areas at risk.

Why this? Why now? This topic follows the human geography topic of unequal world which introduced how human factors can influence people's standard of living. This now highlights that the natural world can also have an influence and students are encouraged to link the two together – why would a hazard event have longer term impacts in a LIC?, for example.

Building on...building to: This builds on some of the concepts and key terms introduced when looking at weather hazards in year 7 e.g. cause and effect. At KS4 the specification requires that students again focus on tectonic processes such as plate boundaries but with more of a focus on earthquakes, so this topic provides the building blocks for that. The KS5 specification also has a hazards unit for which students will draw on these same geomorphological processes.

Sequence summary:

- Continental Drift & Structure of the Earth
- Plate boundaries
- Destructive plate boundary – earthquakes & volcanoes
- Impacts of volcanic eruptions
- Impacts of Mt Nyiragongo
- Responses to volcanic eruptions
- Why do people take the risk?
- Reducing the damage
- Supervolcano – Yellowstone
- Offshore volcanic eruptions

Key Vocabulary:

- Continental drift – the world's continents have been moving because of mantle convection currents
- Core/mantle/crust – key parts of the structure of the earth
- Oceanic/continental – types of crust
- Shield/Composite – types of volcano
- Primary/Secondary impacts – impacts that are immediate vs impacts that are longer term
- Prediction – being able to suggest when a hazard event may take place
- Tsunami – large wave that may occur as a result of offshore volcanoes/earthquakes

Assessments: Regular recall and retrieval tasks on whiteboards throughout each lesson to check understanding and dispel misconceptions. Extended written task with Mt Nyiragongo lessons. End of unit test with short, knowledge based questions.

Able and interested: Excellent resources include the BBC Bitesize Tectonic Hazards and BBC Newsround Volcano Guide. Watch the film 'The Impossible' based on real life events of the Boxing Day tsunami.

Inclusion, Personal Development and Wider Skills: Tasks are scaffolded to build confidence. Longer exam questions are explicitly broken down into sections. Students link physical and human geography concepts together.
Homework and Independent Learning: Homework is set fortnightly from a bank of options designed to fit alongside the topic. Homework tasks are designed to cover a variety of options, some of which are more creative. Students can challenge themselves to have a go at some more challenging tasks, as well as some more scaffolded tasks.