Year 9: Restless Earth

Lessons:

Lesson 1: Intro to Natural Hazards

Lesson 2: Tectonic Plates

Lesson 3: Plate Boundaries and causes of Earthquakes

Lesson 4: Impacts of Earthquakes

Lesson 5: Responses to Earthquakes

Lesson 6: Comparing Earthquakes

Lesson 7: Feed Forward

Lesson 8: Volcanoes

Lesson 9: Effects of Volcanic Eruption

Lesson 10: Monitoring, Protecting, Planning, Predicting.

Lesson 11: Iceland

Lesson 12: Why live in danger zones?

Lesson 13 and 14: Revision and Assessment

Broad overview:

This topic is an insight into how our planet behaves as a natural system regardless of the people living there; and is a reminder that we need to fit in around these natural processes. We begin by exploring how the surface of the world has changed since its' time began and why; before moving on to studying the impacts of this movement. We shall focus on volcanic activity though we will also explore seismic hazards. Students will explore the positives and negatives of living in a tectonically active zone leading them to consider why people put themselves at this risk every day.

Assessment:

Mid Unit assessment: Comparing earthquakes

End of Unit Test

Homework

Satchel quizzes set fortnightly

Revision for End of Unit Test

Keywords

Natural Hazards, Tectonic, Climatic, Hazard Risk, Wealth, Climate Change, Earthquakes, Volcanic eruptions, Tectonic plates, Crust, Mantle, Inner/ Outer Core, Convection Current, Continental Drift, Diverge, Converge, Pangea, Constructive, Destructive, Conservative, Collision, Subduction, Friction, Focus, Epicentre, Seismic Waves, Causes, Primary and Secondary impacts. Tsunami, Magnitude, earthquake-prone, Immediate and Long-term responses, Evacuation, field hospitals, Infrastructure, Action plan, Plate Boundary/ Faultline, Focus, HIC/ LIC, Development, Preparedness, Active, Dormant, Extinct, Magma/chamber, Lava, Vent, Secondary vent, Ash cloud, Volcanic eruption, Ash Clouds, Toxic gases, Evacuation, Subduction, Tourism, Mining, Resources, Geothermal, Fertile, Agriculture, Development.

Jobs

Volcanologist

Seismologist

Geologist

Aid distribution worker

Field hospital nurse or doctor

Links to KS3

Y7 Wild Weather—planning and response

Yr 8 Urban World—push and pull factors for population distribution

Yr 9—Plentiful Planet—geothermal energy

Links to GCSE and A Level

Tectonic hazards

Volcanoes

Earthquakes

Living with natural hazards

Extra Curricula:

The American Museum of Natural History has got a good interactive page to learn more about the way the earth's crust move and the impacts of this.

Plates on the Move | AMNH