



Natural Hazards

| How does this unit link to prior learning? | | | |
|--|---------------------------------------|---|-----------------|
| Year 7 | Year 7 | Year 8 | Year 9 |
| Map skills | Weather and Climate (Extreme Weather) | Globalisation (Development differences between countries) | Natural Hazards |
| What will you be learning about? | | | |
| In this unit you will learn about how natural processes can cause dangers and problems for people. You will start by learning about tectonic hazards—hazards such as earthquakes and volcanoes which are caused by movements in the earth’s tectonic plates. You will then move on to learn about weather hazards such as tropical storms. Finally we will learn about the challenge of climate change. | | | |
| Key Focus | | | |
| For each aspect of the natural hazards unit (tectonic hazards, weather hazards and climate change) you will focus on the physical processes that cause the hazard, the ways it can affect people and the ways in which people can reduce the risk level of the hazard. You will also learn a number of case studies. Each lesson will start with knowledge retrieval, which will cover the knowledge, understanding and skills you have developed in previous lessons. | | | |
| We will develop our learning by studying the following sequence of lessons: | | | |
| 1. Structure of the Earth You will piece together the structure of the earth and then start to discover what plates are and how convection currents make them move. 2. Plate Boundaries You will develop your understanding of plates by looking at the different types of plate boundaries and the hazards created by them. 3. Earthquakes You will be able to explain the primary and secondary effects of earthquakes, and learn about the methods people can use to make earthquakes less of a hazard 4. Case studies- Earthquake You will compare the effects and responses of two different earthquake case studies; Chile (HIC) and Haiti (LIC). 5. Interim Assessment You will be assessed on the Natural Hazards topic so far. 6. Global Atmospheric Circulation You will create a model based on the weather patterns found across the world and how these help form ecosystems such as rainforests, deserts and forests in the UK. | | 6. Tropical Storms You will start to find out how tropical storms are formed and how climate change can make them more frequent and more severe. 8. Case Study- Tropical Storm You will discover the causes, impacts and responses to Typhoon Haiyan in the Philippines. 9. UK Weather You will start to look more locally at the weather hazards the UK is subjected to and why the weather may be becoming more extreme. 10. Case Study- Storm Ciaran You will look at the causes, impacts and responses to the flooding that took place in the UK. 11. Climate Change The final part of this module will see you looking at what is causing climate change to take place and how people are trying to adapt to the changing climate. 12. End of Topic Assessment You will be assessed on everything you have learnt through this module and some elements of Year 9 and then close any gaps on misunderstandings. | |
| Key Vocabulary | | | |
| Tectonic Richter scale Prediction Preparation Protection Eye wall Storm surge Extreme weather | | | |
| Natural hazard Hazard risk Mitigation Adaptation Fossil fuels Renewable energy | | | |
| How will this unit help you in the future? | | | |
| Year 10 The skills you develop in explaining physical processes and evaluating human responses will help you in upcoming units in the GCSE course such as UK Physical Landscapes and The Changing Economic World | | Year 11 This unit will be assessed your Paper 1 exam in May. This unit provides the foundation for further study of natural hazards at A-Level and degree level. An understanding of climate change will be essential for the future, as it will inevitable impact on many aspects of your career and other aspects of your life. | |