# 3: Earthquakes and volcanoes

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| Key learning objective | Sub learning objective | Understanding before unit | Example of learning to cover this syllabus point | Understanding at end of unit |
| Describe the main types and features of volcanoes and earthquakes | I can define the word volcano and distinguish between active, dormant and extinct volcanoes |  |  |  |
| I can identify the key features of a composite volcano |  |  |  |
| I can identify the key features of a shield volcano |  |  |  |
| I can identify the key features of and earthquake such as focus and epicenter |  |  |  |
| I can identify how earthquakes are measured by the Richter and Mercalli scales |  |  |  |
| Describe and explain the distribution of earthquakes and volcanoes. | I can describe the distribution of volcanoes and earthquake zones |  |  |  |
| I can identify the layers of the earth |  |  |  |
| I can differentiate between the two types of crust |  |  |  |
| I can explain what happens at a divergent/ constructive pate margin |  |  |  |
| I can explain what happens at a convergent/ destructive plate margin |  |  |  |
| I can explain what happens at a conservative plate margin |  |  |  |
| Describe the causes of earthquakes and volcanic eruptions and their effects on people and the environment | I can explain why volcanoes happen at hotspots |  |  |  |
| I can explain the long and short term effects of a volcanic eruption |  |  |  |
| I can describe and explain the causes and effects of a named volcano: Montserrat |  |  |  |
| I can explain the long and short term effects of an earthquake |  |  |  |
| I can describe and explain the causes and effects of a named earthquake: Haiti |  |  |  |
| Demonstrate an understanding that volcanoes present hazards and offer opportunities for people | I can describe the different volcanic hazards such as lava, ash, pyroclastic flows, mudflows, etc. and a describe the likely hazards of each for people. |  |  |  |
| I can explain the benefits of living in volcanic regions. |  |  |  |
| Explain what can be done to reduce the impacts of earthquakes and volcanoes | I can explain how volcanoes can be predicted along with any equipment that is used |  |  |  |
| I understand the importance of the importance of evacuation and warning systems |  |  |  |
| I can describe the measures taken to reduce the examples of measures taken to reduce the impact of volcanoes |  |  |  |
| I can explain why people live in earthquake zones |  |  |  |
| I can explain what can be done to manage the risk in earthquake zones |  |  |  |