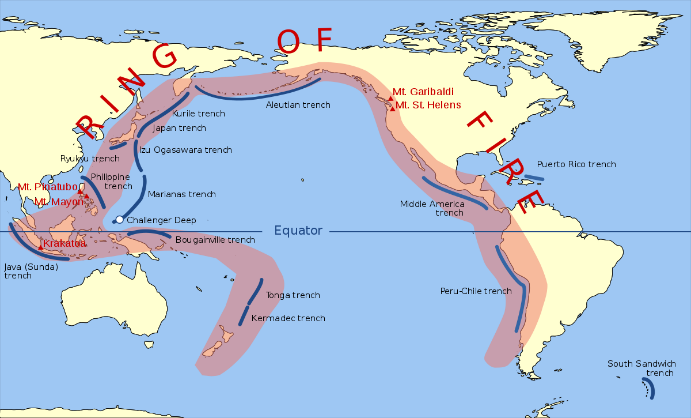
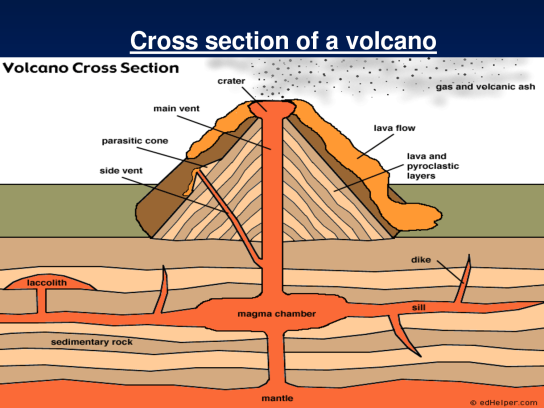
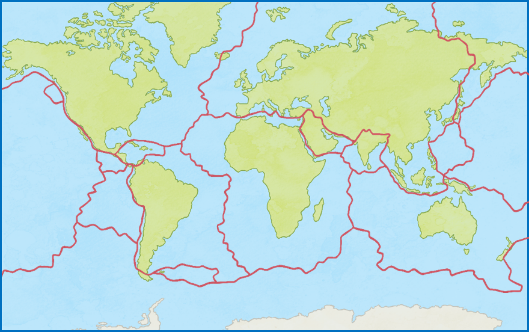
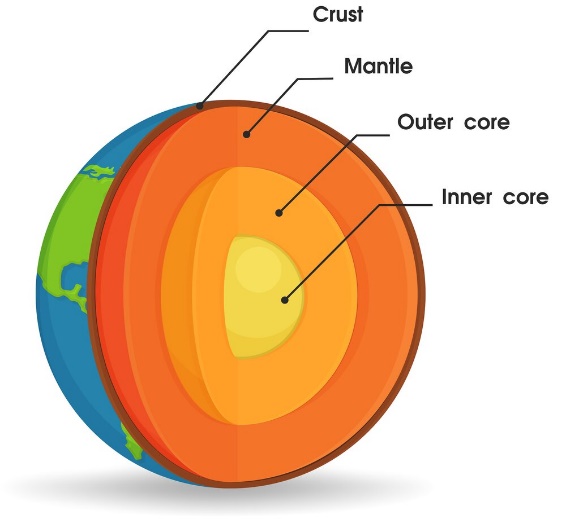
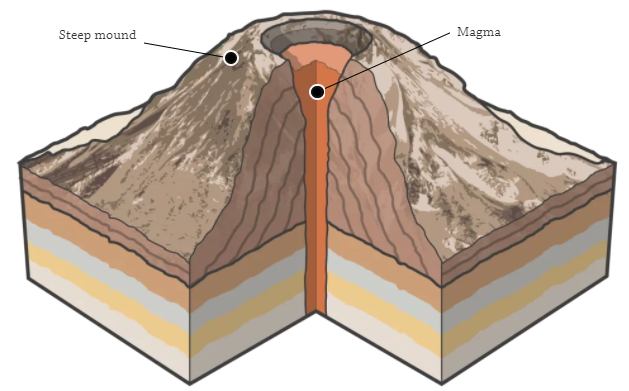
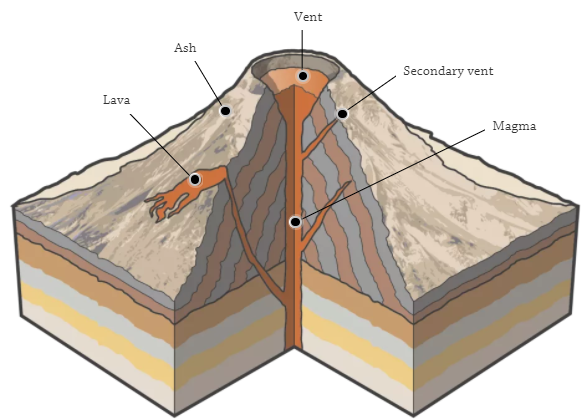
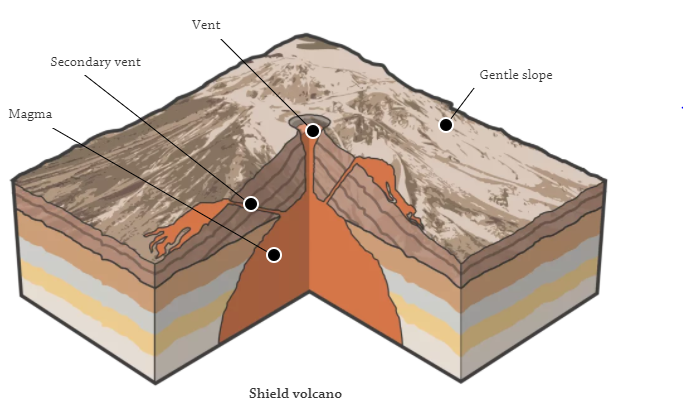
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| Key Places | |
| The Ring of Fire | An area of the Pacific Ocean, which is home to 90% of the world’s earthquakes and 75% of the world’s volcanoes. |
| Italy | Mount Etna  Mount Vesuvius |
| Philippines | Mount Mayon |
| Japan | Mount Fuji |
| Mexico | Popacatepetl |

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| Key Facts | |
| 1. | The earth is made of layers, which are the inner core, the outer core, the mantle and the crust. |
| 2. | **Tectonic plates** are pieces of Earth's crust and uppermost mantle. Together they are referred to as the lithosphere |
| 4. | A volcano is formed when the mantle mixes and moves. This causes pressure and causes the mantle to leak out onto the surface of the earth. |
| 5. | The plates on the earth can move and this movement causes friction. This can result in volcanic eruptions and earthquakes. |
| 6. | A volcano can be active, dormant or extinct |
| 7. | An earthquake is a shaking of the ground caused by movement of the Earth's crust. |
| 8. | Earthquakes are measured using the Richter Scale. They are rated from 1(small) to 10 (extreme) |
| 9. | In 79 AD Mount Vesuvius in Pompeii erupted and destroyed the whole city. |
| 10. | During a volcanic eruption or an earthquake buildings can be destroyed, fast moving lava can kill people and falling ash can make it difficult to breathe. |

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| Vocabulary | |
| volcano | A mountain or hill, having a crater or vent through which lava, rock fragments, hot vapour, and gas are or have been erupted from the earth's crust. |
| crust | The Earth's outer layer. |
| mantle | The layer between the crust and the outer core. |
| inner core | A solid layer made of iron and nickel. The hottest part of the Earth. |
| igneous | Rocks that were once so hot that they were liquid. |
| active | An **active** volcano has erupted recently or is expected to erupt quite soon. |
| dormant | A volcano that is not active, at the present time but is capable of  becoming active later on. |
| extinct | A volcano that has erupted thousands of years ago but will probably never erupt again. |
| ash cloud | The products of an explosive eruption. |
| vent | The central crater of a volcano. |
| crater | A very large hole in the ground, which has been caused by something hitting it or by an explosion. |
| magma | Molten rock that are formed in very hot conditions **inside** the earth. |
| magma reservoir | A large pool of liquid rock inside a volcano. |
| lava | The very hot liquid rock that comes  out of a volcano. |
| seismic wave | An earth vibration generated by an earthquake or explosion. |



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| Key Diagrams |



**Cinder Volcano**

**The Earth**

**Tectonic Plates**

**Shield Volcano**

**Composite Volcano**