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| **Key Theme** |
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Year 4 – Spring 1 – Volcanoes & Earthquakes

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| **Sticky Knowledge & Skills** |
| * Mount Vesuvius erupted in AD79.
* Pompeii was buried underneath a blanket of ash, pumice-stone and lava and was not re-discovered again until 1748.
* Approximately 2000 people in Pompeii lost their lives following the eruption.
* There are around 1,500 active volcanoes around the world.
* Tectonic plates move towards each other, away from each other and when this happens, it can cause both volcanic eruptions and earthquakes.
* The Ring of Fire is a region which spans much of the Pacific Ocean where a great many volcanic eruptions and earthquakes happen every year.
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| **Labelled diagram of a volcano** |
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| **Key Texts** |
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| **Key Vocabulary** |
| active | An active volcano has erupted in the last 10,000 years. |
| dormant | A dormant volcano has not erupted in the last 10,000 years but could erupt in the future. |
| extinct | An extinct volcano will not erupt ever again. |
| volcanic eruption | A volcanic eruption is when lava and gas are released from a volcano. |
| core | The Earth’s core is the central layer which is made of iron and nickel. |
| mantle | The Earth’s mantle is the middle layer which is moving hot rock. |
| crust | The Earth’s crust is a thin outer layer of hard rock. |
| Ring of Fire | The Ring of Fire is a region in the Pacific Ocean which experiences lots of volcanic eruptions and earthquakes. |
| Mount Vesuvius | Mount Vesuvius is an active volcano situated in the Bay of Naples in Italy. |
| Richter scale | The Richter scale measures how powerful an earthquake is. |
| magnitude | How word used to describe how strong an earthquake is. |
| tremor | A small earthquake in which the Earth shakes slightly. |

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| **Core Value Focus** |
| CompassionEmotional healthRespect |

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| Geography | Science(Changes of state) | RE What can we learn about religions about what is right and wrong? |
| What are the three main layers of the Earth?What are the three volcano states?What is a volcanic eruption?What is the difference between lava and magma?Where is Mount Vesuvius located?What does the Richter scale measure?Describe the movement of tectonic plates… | The core, mantle and crust.Active, dormant or extinct.When lava and gas are released from a volcano with force.Lava is flowing molten rock above ground and magma is the same but underground.The Bay of Naples in Italy.The strength of an earthquake on a scale of 1-9.They can move towards each other, away from each or past each other. | What are the three states of matter?At what temperature does water start to freeze and become ice?Are all melting points the same?What is evaporation?Why is water special?Describe the particles of a gas. | Solid, liquid and gas.0 degrees Celsius.No – it depends on the material you are trying to melt. Not all of them have the same properties.This is a process which takes place when a liquid warms up and turns into a gas.Because it can exist in all three states of matter.They are spread out and move around quickly and freely. | What is a golden rule?What are the ten commandments?What rule could you create to make the world a ‘good’ world?How do humanists decide what is right or wrong without God’s help?Name two things that a humanist believes in. | A rule that is very important.A set of rules that are followed in Judaism and Christianity.*Various answers.*They think carefully about their actions and the right way to live. * There is no God
* Science is the best method for understanding the world
* We only have ‘one life’ so we need to make the most out of it
* Have empathy for others and the world we live in.
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