



# St Luke's C of E Primary School - Topic Overview

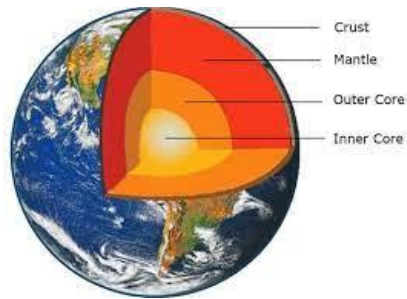
## Year 4 - Earthquakes and Volcanoes

### Enquiry Questions

Why are there volcanoes?

What causes an earthquake?

What causes the ring of fire?



### National Curriculum

As geologists, the children will delving into the structure of the Earth and finding out how our planet is made up of different layers. We will be studying how the first layer of the Earth, the crust, is broken up into tectonic plates, which move. The children will develop an understanding that this movement of the plates is what causes earthquakes to occur and is also the process by which volcanoes and mountains are formed. This will allow the children to understand that different places on Earth have a more volatile Earth's crust, which results in more earthquakes and volcanoes, like the Ring of Fire.

In design and food technology we will be learning basic food hygiene. Then we will follow the design process to research and create our own gingerbread volcano inspired treats meeting the design brief.

As scientists, the children will investigate how to construct and interpret a variety of food chains. They will be identifying producers, predators, prey, and understand the importance that each plays in the food chain and how environmental factors could affect its fine balance.

As writers, we will be writing Kenning poems about Volcanoes. We will also write diary entries and letters explaining the dangers of volcanoes. As readers we will be exploring texts that transport us back in time and develop our retrieval and summarizing skills.

In RE we will be exploring our key question, 'What is the Trinity?' There is a specific homework this term to support this.

### Key Vocabulary:

food chain	earthquakes	volcanoes
plates	tectonic	crust
lava	magma	mountains
blending	vibrations	geologists

*Live Life in All Its Fullness*

*John 10:10*



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## Year 4 - Earthquakes and Volcanoes

Home Learning should build your skills and confidence. Please challenge yourself to a selection of these tasks over the course of the topic and bring in what you have done to share with your teacher and your class. Try to complete one from each section.

<p><b>Verbal</b> I enjoy reading, writing &amp; speaking</p>	Write a poem on the theme of volcanoes and decorate it to go on display at school	Imagine you have experienced an earthquake, write a short story about what happened.	Create your own drama based on escaping from a volcano erupting (use props/puppets or yourself)	Create a fact file, information sheet or newspaper article about a natural disaster that has occurred (volcano/earthquake)
<p><b>Mathematical</b> I enjoy working with numbers, science and computers</p>	Find the latitude and longitude coordinates for 10 places around the world.	Create a power point on the food chain of some sea creatures (whales, sharks etc.)	Find out what are the 5 most powerful earthquakes recorded and where they occurred	Create a times table poster that can be displayed to help you learn your times tables
<p><b>Visual</b> I enjoy painting, drawing &amp; visualizing</p>	Create a volcano inspired artwork. This could be drawn, painted or made using outdoor objects.	Draw a diagram of a food chain which includes animals found in the UK.	Find out how many volcanoes are on Earth and choose one to draw a labelled diagram.	Draw a diagram of the Earth and its different layers
<p><b>Kinaesthetic</b> I enjoy doing hands-on activities</p>	Create a model of the layers of the Earth using a range of materials.	Bake a cake to show the different layers of the Earth.	Create a model of a volcano, can you find a way to make it erupt?	Create a word search using the key vocabulary.
<p><b>Musical and dance</b> I enjoy making and listening to music</p>	Create a piece of music to demonstrate an earthquake or volcano	Create a dance to go with your piece of earthquake music or volcano	Use your recorder to compose a piece of music and write down the notes you used.	RE: Think carefully about what the words 'Light, Life, Love or Glory' mean, write a new verse to any Christmas carol using these words in their song verse. Due in Monday 27 <sup>th</sup> November

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