



St Luke's C of E Primary School – Topic Overview

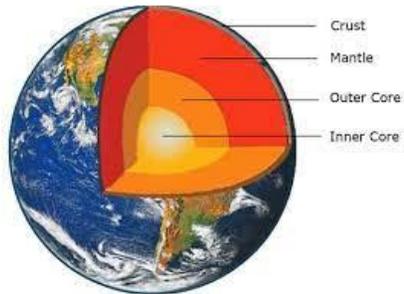
Year 4 – Earthquakes and Volcanoes

Enquiry Questions

Why are there volcanoes?

What causes an earthquake?

What causes the ring of fire?



National Curriculum

As geologists, they will delving into the structure of the Earth and finding out how our planet is made up of different layers. They will be studying how the first layer of the Earth, the crust, is broken up into tectonic plates, which move. They will understand 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.

As artists, they will look at the different ways texture built up and used to create a piece of work. They will also develop their blending skills to enable them to create a piece of striking volcano artwork.

As designers, they will be researching how buildings and structures are designed and built to withstand earthquakes. This will enable them to design, create and evaluate their own structure that will hopefully be able to withstand ground vibrations.

As scientists, they will be investigating 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.

Key Vocabulary:

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

Successful Learners, Confident Individuals, Responsible Citizens



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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!

Verbal I enjoy reading, writing & speaking	Research the 3 different rock types (sedimentary, igneous and metamorphic) and present your information in an interesting way.	Research and create a poster about Mary Anning, the famous fossil collector.	Write a poem on the theme of volcanoes.	Imagine you have experienced an earthquake, write a short story about what happened.
Mathematical I enjoy working with numbers, science and computers	Find the latitude and longitude coordinates for 10 places around the world.	Create a PowerPoint on the food chain of some sea creatures (whales, sharks etc...)	Found out what are the 5 most powerful earthquakes recorded and where they occurred.	Found out how many volcanoes are on Earth. Create a bar chart of how many on each continent.
Visual I enjoy painting, drawing & visualizing	Draw or paint a volcano scene.	Draw a diagram of a food chain which includes animals found in the UK.	Use outdoor objects to create a volcano image.	Draw a picture of the Earth and its different layers
Kinaesthetic I enjoy doing hands-on activities	Create a model of the layers of the Earth using a range of materials.	Find examples of different rock types and group them in different ways (colour, weight, texture etc...).	Bake a cake to show the different layers of the Earth.	Create a model of a volcano erupting
Musical and dance I enjoy making and listening to music	Create a piece of music to demonstrate an earthquake	Create a dance to go with your piece of earthquake music	Create a musical instrument that could be used to create the sound on an earthquake.	Create a dance to show how lava follows down a volcano.

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