



St Luke's C of E Primary School – Topic Overview Autumn 2

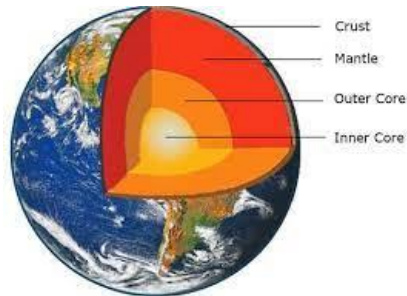
Year 4 – Earthquakes and Volcanoes

Enquiry Questions

Why are there volcanoes?

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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.

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

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.

Key Vocabulary:

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

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English - Reading

Our whole class book this term will be finishing our study of *Escape from Pompeii* by Christina Balik. We will then move onto *The Pebble in my Pocket* by Meredith Hooper and *Stone Girl Bone Girl* by Laurence Anholt. We will continue to develop our retrieval skills and ability to summarise and use inference.



English

English – Writing

In writing, we will be exploring two texts:

Non-fiction – Narrative – Quest

Their outcome will be to take a new character on a quest after another character has asked them to go based on our model text *The Journey to the Lonely Mountain*.

Toolkit focus: Speech punctuation, subordinating conjunctions and fronted adverbials

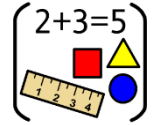
Non-fiction – instructions

Their outcome will be to write a set of instructions referring to our model text 'How to make a worm and ice-cream smoothie' and building on their practical experience of following instructions when making a volcano biscuit in DT.

Toolkit focus: writing in a chronological order, using imperative verbs and adverbials of time.

Maths

We will begin the half term by reinforcing our ability to add and subtract 4 digit numbers when exchanging and renaming is involved using formal methods. This will be the focus of start with.



Maths ,

We will then move on to our next 2 operations: multiplication and division. During this unit, we will be developing our times table facts up to 12. We will then demonstrate our understanding of the inverse by using these facts to divide numbers.

Within our measurement unit, we will be learning what area is, how to count the squares to identify the area and compare areas.

Timetables are very important and the children will be taking a timetable test in June.

Please ensure they log on to TTRS regularly.

Key Vocabulary

4 operations: addition, subtraction, multiplication, division

altogether, equals, groups of, exchange, decrease, increase

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