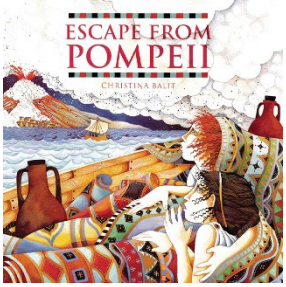




Topic:	Volcanoes		
Main Subject	Geography		
Linked Subjects	DT (Structures)		
NC objective	Describe and understand key aspects of volcanoes.		
Main subject key knowledge and skills	<p>Geography</p> <ul style="list-style-type: none"> • Explain why aspects of countries are similar and different in physical and human geographical features (Iceland - Volcanoes) • Demonstrate an understanding of the key physical processes that occur around the world • Understand some of the physical processes in the formation of rivers and volcanoes • Explain the landscape of Iceland in terms of how it has been shaped by volcanoes • Use atlas symbols • Use scale bar on maps to measure distances • use mapping software with a 3D view to compare plan and oblique views of places • Use medium scale maps (eg. OS: 1:10,000, 1:25,000 and 1:50,000 maps) • Understand there are differences between physical and human aspects of regions - East Anglia (UK), Catalonia (Europe), California (North America) and Amazon Basin 		
Linked subject key knowledge and skills	<p>DT</p> <p>I can use prototypes, and computer aided designs to represent designs. I can create innovative designs that improve upon existing products I can make products through stages of prototypes, making continual refinements. I can ensure products have a high quality finish, using art skills where appropriate. I can evaluate the design of products so as to suggest improvements to the user experience, I can combine elements of design from a range of inspirational designers throughout history, giving reasons for choices</p>		
Discrete Subjects	<p>Science - Evolution and Inheritance</p> <p>French - At the weekend</p> <p>RE - How and why do some people inspire others?</p>		
Main Text	Newspaper Reports	Examples of biographies	<p>Escape from Pompeii</p> 
	Non-fiction fact files about volcanoes.		

Main Writing Genre	News Report	Biography	Short Story
Enrichment	<p>Now Press Play - Natural Disasters</p> <p>VR experience related to volcanoes.</p>		
Weekly overview	<p>Wk1 -</p> <p>Geography</p> <p>Physical Geography. Describe what happens at the plate boundaries and what happens when the plate collides. What happens when a volcano erupts? Go through different tectonic plates and label some volcanoes on these plates.</p> <p>Locate some of the world's volcanoes on a map and research when they last erupted.</p> <p>English</p> <p>Plan and write news report.</p> <p>Maths- Ratio 3 lessons</p> <p>L6 - Similar shapes</p> <p>L7 - Ratio and proportion problems</p> <p>L8 - Recipes</p> <p>Maths Algebra 2 lessons</p> <p>L1 - 1 and 2 step function machines</p> <p>L2 - Form expressions</p> <p>Reading</p> <p>Reading different newspaper reports.</p>		
	<p>Wk2 -</p> <p>Geography</p> <p>Human Geography- report the effects of a volcanic eruption.</p> <p>Look at the advantages and disadvantages of why people live near volcanoes.</p> <p>Compare and contrast using appropriate geographical vocabulary, the physical and human geography of Hiemaey (Iceland) with the area in which I live.</p> <p>Compare and contrast how Hiemaey (Iceland) has changed over time.</p> <p>English</p> <p>Plan and write an independent news report.</p> <p>Maths- Algebra 8 lessons</p> <p>L3 - Substitution</p> <p>L4 - Formulae</p> <p>L5 - Form equations</p> <p>L6 - Solve one-step and two-step equations</p>		

L7 - Find pairs of values

Reading

Volcano fact files- compare and contrast different volcanoes. .

WK3 -

English -

Plan and write an adventure story.

Reading

Read Escape from Pompeii

Maths- Algebra 1 lessons

L8 - Solve problems with two unknowns

Maths Decimals 9 lessons

L1 - Place value within 1

L2 - Place value - integers and decimals

L3 - Round decimals

L4 - Add and subtract decimals

D&T

- Structures - This STEM unit will focus on the building of structures with different materials. We will explore different structures around the world and learn about what different structures are used for and why we might use different materials in building.
- Research structures; add to computer aided design to create model brief.
- **Cut & shape materials and join components with precision to create volcano structure, using appropriate techniques**
- Complete structure using art media
- Evaluate completed structure.

WK4 -

Science - Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. Finding things out using a wide range of secondary sources of information. Recording complex data and results using scientific diagrams and labels, classification keys, scatter graphs, bar and line graphs. Reporting and presenting findings from enquiries, including conclusions, casual relationships and explanations of and degree of trust in results in oral and written forms such as display and other presentations.

English - Story board and write own disaster short narrative.

- Plan; write; edit & improve, then publish.

Reading

Looking at examples of different biographies- structural and language features.

Maths- Decimals 5 lessons

- L5 - Multiply by 10,100 and 1000
- L6 - Divide by 10,100 and 1000
- L7 - Multiply decimals by integers
- L8 - Divide decimals by integers
- L9 - Multiply and divide decimals in context

WKS -

Science - Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Finding things out using a wide range of secondary sources of information.

English -

Plan and write a biography.

Reading

For the remainder of this half-term we are looking weekly at individual pieces of writing to do with volcanoes, we are correcting our SATS past papers and we are practicing our comprehension and question answering skills.

Maths- Fractions, decimals and percentages 9 lessons

- L1 - Decimal and fraction equivalents
- L2 - Fractions as division
- L3 - Understand percentages
- L4 - Fractions to percentages
- L5 - Equivalent fractions, decimals and percentages

WKS - Assessment week

Science - Kahoot Quiz

English - completion of biography unit.

Maths- Fractions, decimals and percentages 9 lessons

- L6 - Order fractions, decimals and percentages
- L7 - Percentage of an amount - one step
- L8 - Percentage of an amount - two step
- L9 - Percentages - missing values

Reading

For the remainder of this half-term we are looking weekly at individual pieces of writing to do with volcanoes, we are correcting our SATS past papers and we are practicing our comprehension and question answering skills.

RE

- L1 - How are people inspirational? What might this look like? Why was Jesus inspirational?
- L2 - What makes an inspirational leader?
- L3 - Who is important you?

	L4 - How and why do some people inspire others?
Reflection of Learning	Final write up of news reports, story and biography. Kahoot quiz- science Geography poster- reflection of learning RE poster- reflection of learning.
Sticky Knowledge	Volcanoes are caused when magma rises to the surface of the Earth, which causes bubbles of gas to appear in it. This gas can cause pressure to build up beneath the surface, and it eventually explodes. Earthquakes are usually caused when rock underground suddenly breaks along a fault. This sudden release of energy causes the seismic waves that make the ground shake. A tsunami is a series of large waves generated by an abrupt movement on the ocean floor that can result from an earthquake, an underwater landslide, a volcanic eruption or - very rarely - a large meteorite strike. Mountains make up one-fifth of the world's landscape. Mount Everest is the world highest mountain and it is 8,850m high. There are mountains under the surface of the sea. 80% of our fresh water originates from mountains. The highest 14 mountains in the world are all found in the Himalayas.
British values/citizenship	Individual liberty (RE) Mutual respect (RE) Tolerance of those with different faiths and beliefs (RE)
Computing Links	* Now Press Play * Map work for physical geography Research skills for finding out important information Tinker CAD in DT
Outdoor learning	
Home learning	Brainbuilder homework
Memory retention	Kahoot quizzes Retrieval lessons