



Autumn Term 1

Topic Title: Earth Matters - Extreme Earth

History	Geography	Art	Design and Technology
<p>Significant events in history - Pompeii.</p>	<p>This Extreme Earth unit will teach your class about the destructive powers of nature, from volcanoes and earthquakes to tsunamis and tornadoes.</p> <p>Through discussion and practical tasks, children will learn about how and why these natural phenomena occur, and the ways in which they affect people and the environment.</p>	<p>They will study mastery of art and design techniques and produce creative work, exploring their ideas and recording their experiences.</p>	<p>Use, research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.</p> <p>Create a simple version of a seismograph to show vibration.</p> <p>The children will create a 3d model of the Earth using Play-doh. To create a volcano using a medium of their choice. These can be exploded in order to recreate a volcanic eruption</p>

Key drivers of the curriculum

Aspirations	Global citizenship	Wellbeing
<p>Careers within geology and seismology</p> <p>Reporting news from around the world.</p>	<p>In Geography, we will be teaching the children what it means to be a global citizen. Through our teaching about human and physical features we will investigate the impact and destruction an erupting volcano and earthquakes have. Having empathy for the people affected by natural disasters.</p>	<p>Sending humanity and aid to places in need after a natural disaster</p> <p>Links to PSHCE - empathy.</p> <p>Being aware of safety procedures.</p>

Core links through the curriculum.

Basic Skills

Real World Applications

English	Numeracy	Using Technology including Computer Science	Science
<p>Key texts</p> <p>Texts linked to Pompeii.</p> <p>Writing opportunities</p> <p>Plan and perform a commentary on the build up to the</p>	<p>Reading scales (link to seismograph - Richter scales)</p> <p>Measuring wind speed</p> <p>Grid references on maps</p>	<p>Conducting own research using search engines.</p> <p>Measuring equipment.</p> <p>Stop Start animation for volcanic eruptions.</p>	<p>Building knowledge of convection currents, magnetism and forces including friction.</p> <p>Weather.</p>

<p>eruption and the eruption itself. Writing explanations Be able to identify the audience for and purpose of the writing, selecting the appropriate form and using similar writing as models for their own.</p>			
<p>Reading opportunities Skimming and scanning to find information when doing research Perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear.</p>			

Objectives	Activities
Geography:	
<p>I can use simple geographical vocabulary to describe significant physical features and talk about how they change. I can use appropriate vocabulary to describe the main land uses within urban areas and identify the key characteristics of rural areas. I can explain why some regions are different from others. I can understand how the human and physical characteristics of one region in Europe and North or South America are connected and make it special (Ring of Fire). I can understand how physical processes can cause hazards to people. I can describe some advantages and disadvantages of living in hazard-prone areas. I can use a map to locate areas of natural disasters (Ring of Fire).</p>	<p>Locate Ring of Fire on a map and places of other natural disasters. Farming linked due to rich soils. Discussion of safety procedures.</p>
ICT:	
<p>I can use sequence selection and repetitions that work with variables and forms of input and output (stop motion- volcanic eruption).</p>	<p>Stop start animation of a natural disaster.</p>
D&T	
<p>I can understand and use mechanical systems. I can make a product which uses electrical components (warning system for earthquakes using pressure pads). I can make accurate measurements to the nearest cm</p>	<p>Seismograph - create Use electric circuits to create warning systems (linked to Science).</p>
Art	
<p>I can use the side of pastel or charcoal to build up layers of colour (tissue paper). I can work with a variety of pen types.</p>	<p>Volcano pictures based on Margaret??</p>

<p>I can mix different thicknesses of paint for different purposes e.g. Thin for a colour wash background.</p> <p>I can take responsibility for preparing, organising and clearing away my painting area.</p> <p>I can sculpt clay using a range of tools and techniques.</p> <p>I can make a 3D sculpture using a range of materials. e.g. modroc, papier mache.</p> <p>I can describe differences and similarities between drawings, paintings and sculptures by well known artists and designers studied.</p> <p>I can describe how my own work is similar and/or different to the work of well known artists and designers that I have studied.</p>	<p>Make model of the Earth using Play-doh</p> <p>Make 3D erupting volcanoes (homework).</p>
<p>History</p>	
<p>I can comment on the importance of causes and effects for some of the key events and developments within topics.</p> <p>I can explain why some aspects of historical accounts, themes or periods are significant.</p> <p>I can comment on a range of possible reasons for differences in a number of accounts.</p>	<p>Study the eruption of Vesuvius and the effect it had on the people of Pompeii.</p>