

VOLCANOES AND EARTHQUAKES KS2 PLANNING

Class:

Term: Summer 1

Subject: Geography

Unit: Volcanoes and Earthquakes

<p>Differentiation and support (Detailed differentiation in weekly plans.)</p> <p>SEN: give writing frames. Support from more able partners in mixed ability work. Additional adult support.</p> <p>GT: encourage them to work independently and to support less able peers. Encourage use of technical vocabulary</p>	<p>English: using dictionaries and / or non-fiction books, making notes, comparing descriptive language, writing first person recount and presenting</p> <p>Maths: grid references, comparing numbers, Roman numerals</p> <p>ICT: using laptops / PCs to research information, audio / video recording</p> <p>Science: annotating diagrams, technical vocabulary, geology</p> <p>History: looking at Pompeii, thinking about geological time</p>
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W	Learning Objective	Skills/knowledge/activities	Resources	Assessment: Success criteria	Evaluation
1	To know the meaning of terminology related to volcanoes and earthquakes	<p>Intro: Explain that we will be learning about volcanoes and earthquakes this half-term in geography Show children some non-fiction books on volcanoes and earthquakes Explain that today we are going to be finding out the meaning of some of the words that we will be coming across in these topics Revise how to use the contents, the index and the glossary to find information Revise how to use a dictionary, including how to select the relevant definition e.g. the word 'fault' has several meanings Encourage children to give the definitions in their own words, rather than just copy them out</p> <p>Main: Children to find out the meaning of the following words: volcano, earthquake, molten, viscous, lava, magma, tsunami, geyser, fault, epicentre, Richter scale, seismometer, active, dormant</p> <p>Plenary: Revise the meaning of the words and clarify any questions that the children have e.g. the difference between magma and lava</p>	Dictionaries and / or non-fiction books on volcanoes and earthquakes	<p>MUST: find out the meaning of some of the volcano and earthquake related terms</p> <p>SHOULD: find out the meaning of all of the volcano and earthquake related terms</p> <p>COULD: write the definitions in their own words</p>	

2a	<p>To understand the structure of the Earth</p> <p>(20 mins)</p>	<p>Intro: Ask the children what they think they would find if they dug miles and miles under the ground Explain that we are going to be learning what is actually a long way under the Earth's surface Explain independent work Watch video at BBC which likens the Earth's structure to that of a peach: http://www.bbc.co.uk/learningzone/clips/structure-of-the-earth/9117.html Watch video explaining the structure of the Earth: http://www.youtube.com/watch?v=3MFr2cC3erk</p> <p>Main: Watch the YouTube video on the structure of the Earth another couple of times, this time with the children adding notes to their diagrams Read info on the interactive diagram of the Earth's structure at http://www.learner.org/interactives/dynamicearth/structure.html Children to make notes on a diagram of the Earth from these sources</p> <p>Plenary: Children share and compare their diagrams, adding any extra information that they wish to add Give children the opportunity to ask any questions that they have</p>	<p>Videos (play and close adverts before showing)</p> <p>Worksheets</p>	<p>MUST: know that the Earth and volcanoes have different layers and parts</p> <p>SHOULD: correctly label the layers of the Earth and the parts of a volcano</p> <p>COULD: add information to their labelled diagrams</p>	
2b	<p>To understand the idea of plate tectonics</p> <p>To understand how and why earthquakes happen</p> <p>(20 mins)</p>	<p>Intro: Watch introductory video on 'Plate tectonics' at: http://www.youtube.com/watch?v=GYVS_Yh6dTk&feature=related Watch BBC video on plate boundaries at: http://www.bbc.co.uk/science/earth/surface_and_interior/plate_boundary#p00gvk1p Watch national geographic video on earthquakes at http://video.nationalgeographic.com/video/environment/environment-natural-disasters/earthquakes/earthquake-101/ (While watching videos, pause them to further explain technical language and more difficult ideas)</p> <p>Main: Children to complete fill in the blanks worksheet while listening to the videos again</p> <p>Plenary: Revise how the Earth's crust is made up of plates that slowly move, and this causes volcanoes and earthquakes</p>	<p>Videos (play and close adverts before showing)</p> <p>Worksheets</p>	<p>MUST: know that the Earth's crust is split into plates</p> <p>SHOULD: understand that the movement of these plates causes earthquakes and volcanoes</p> <p>COULD: grasp the idea of how long geological change takes</p>	

2c	<p>To understand the structure of a volcano</p> <p>(20 mins)</p>	<p>Intro: Watch video of volcanic eruption at http://www.youtube.com/watch?v=OowFvnlWI90 Watch video at https://www.youtube.com/watch?v=HSpTGOmdF10 which highlights the main parts of a volcano on a diagram Explain each part of the volcano and what it does e.g. the conduit is where the lava travels up to the Earth's surface</p> <p>Main: Children need to label the parts of a volcano</p> <p>Plenary: Go through correct answers Give children the opportunity to ask any questions that they have</p>	<p>Videos (play and close adverts before showing)</p> <p>Worksheets</p>	<p>MUST: label some of the parts of a volcano correctly</p> <p>SHOULD: label all of the parts of a volcano correctly</p> <p>COULD: understand the link between the movement of the plates and volcanoes</p>	
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To access the complete version of this [Volcanoes and Earthquakes KS2 planning](#), and all of the resources to go with it, visit

<http://www.saveteacherssundays.com/geography/year-3/324/>

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