

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:</p> <p>Explain that we will be learning about volcanoes and earthquakes this half-term in geography</p> <p>Show children some non-fiction books on volcanoes and earthquakes</p> <p>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</p> <p>Revise how to use the contents, the index and the glossary to find information</p> <p>Revise how to use a dictionary, including how to select the relevant definition e.g. the word 'fault' has several meanings</p> <p>Encourage children to give the definitions in their own words, rather than just copy them out</p> <p>Main:</p> <p>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:</p> <p>Revise the meaning of the words and clarify any questions that the children have e.g. the difference between magma and lava</p>	<p>Dictionaries and / or non-fiction books on volcanoes and earthquakes</p>	<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:</p> <p>Ask the children what they think they would find if they dug miles and miles under the ground</p> <p>Explain that we are going to be learning what is actually a long way under the Earth's surface</p> <p>Explain independent work</p> <p>Watch video at BBC which likens the Earth's structure to that of an apple:</p> <p>https://www.bbc.co.uk/bitesize/topics/z3fv4wx/articles/z9qpsk7 (if the link does not work, Google 'BBC bitesize KS3 video structure of the Earth')</p> <p>Watch video explaining the structure of the Earth:</p> <p>http://www.youtube.com/watch?v=3MFr2cC3erk</p> <p>Main:</p> <p>Watch the YouTube video on the structure of the Earth another couple of times, this time with the children adding notes to their diagrams</p> <p>Read info on the interactive diagram of the Earth's structure at https://www.learner.org/wp-content/interactive/dynamicearth/structure/ (if the link does not work, Google 'learner.org earth structure interactive diagram')</p> <p>Children to make notes on a diagram of the Earth from these sources</p> <p>Plenary:</p> <p>Children share and compare their diagrams, adding any extra information that they wish to add</p> <p>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>(40 mins)</p>	<p>Intro:</p> <p>Watch the following videos on plate tectonics and earthquakes:</p> <p>http://www.youtube.com/watch?v=GYVS_Yh6dTk&feature=related (if the link does not work, Google 'YouTube plate tectonics fact frog')</p> <p>https://www.youtube.com/watch?v=ryrXAGY1dmE (if the link does not work, Google 'YouTube Plate Tectonics geo dharma')</p> <p>https://www.youtube.com/watch?v=yBr-D1cFmEs (if the link does not work, Google 'Da Vinci TV Tectonic Plates')</p> <p>https://www.youtube.com/watch?v=_r_nFT2m-Vg (if the link does not work, Google 'National Geographic video earthquakes 101') – watch from 1 min 16 secs to 2 mins 33 secs</p> <p>https://www.youtube.com/watch?v=VSgB1IW6O4&list=PLONCfhVD-Pqy9H0JMgmAM4vjKP4gR37O2 (if the link does not work, Google 'YouTube Earthquakes 101 National Geographic') – watch from 29 secs</p> <p>Main:</p> <p>Children to complete a 'fill in the blanks' worksheet about plate tectonics</p>	<p>Videos (play and close adverts before showing and set at correct start points)</p> <p>Worksheets</p> <p>Non-fiction books with information on plate tectonics and / or computers or tablets (for extension)</p>	<p>MUST: know that the Earth's crust is split into plates</p> <p>SHOULD: understand how the movement of these plates causes earthquakes and volcanoes</p> <p>COULD: independently research additional information about plate tectonics</p>	

		<p>and earthquakes LA given the first letter of each missing word; HA not given this Slower working children to work on the sheet; faster working children to work in their books Extension: children to research in books and / or online at https://kids.britannica.com/kids/article/plate-tectonics/346101 (if the link does not work, Google 'Kinds Britannica plate tectonics') and http://www.geography4kids.com/files/earth_tectonics.html (if the link does not work, Google 'Geography 4 kids plate tectonics') to find out additional information about plate tectonics</p> <p>Plenary: Ask the children who got on to the extension to share any additional information that they found out Ask the children to compare their answer, <i>without changing them</i> Revise the key points from the lesson</p>			
2c	<p>To understand the structure of a volcano (20 mins)</p>	<p>Intro: Watch video of volcanic eruption at http://www.youtube.com/watch?v=OowFvnIWl90 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>	

To access the complete version of this [Volcanoes and Earthquakes KS2 planning](http://www.saveteacherssundays.com/geography/year-3/324/), and all of the resources to go with it, visit

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