LESSON PLAN (4)

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| **TOPİC:** Trail of Extinct and Active Volcanoes, Earthquakes Across Europe  | TİME: 45 min |
| LEVEL: 9-10 | STUDENT AGE: 14-15 |
| AIMS: | LEARNİNG OBJECTIVES:  |
| -to teach CLIL lesson about  volcanoes-to learn the vocabulary derived  from the topic.-to teach the topic via technologic  materials .The hydrosphere and cryosphere are the subsystems that contain the Earth's water. The hydrosphere is the water on the Earth's surface contained in oceans, lakes, rivers, and streams, as well as ground water that circulates within the upper part of the lithosphere. The cryosphere is water on the Earth's surface in its frozen state, such as glaciers; snow; sea, lake, and river ice; and permafrost (permanently frozen ground).This lesson explains how water from the hydrosphere and cryosphere can combine with volcanic materials from the lithosphere to produce catastrophic mudflows and floods. Students see the relationship between where mudflows and floods are likely to occur and a volcano's topography. They also discover why snow and ice cap many volcanic mountains and that the potential melting of ice and snow adds to the volcanic hazards on these mountains. | -TO KNOW Connection between fire, ice,water and volcano- TO UNDERSTANDCryosphereFireWaterIceVolcanic EruptionsGeyserFault SourcePermafrost Glaciers-TO BE ABLE TO Use term-specific languageRecognize the photos of diffrent terms. |
| Teaching aids: ppt presentation, photos of different parts of volcanoes, maps and atlases,**Videos**<https://www.youtube.com/watch?v=Dp0Xd1qvgGM>, <https://www.youtube.com/watch?v=Xznc78EkT0E>, <https://www.youtube.com/watch?v=qV-Wm4PKyxQ> **Links:**<http://volcanoes.usgs.gov/> <http://www.ucl.ac.uk/rdr/publications/irdr-special-reports/iceland> <http://serc.carleton.edu/NAGTWorkshops/health/case_studies/volcanic_ash.html> <http://environment.nationalgeographic.com/environment/natural-disasters/volcano-profile/><http://www.bbc.co.uk/search?filter=bitesize&q=volcanoes>  |
| TIME | STAGE | PROCEDURE | AIDS | MODE OF INTERACTION |
| 5 min | Step 1 Warm -up | Ask student if they know what is the connection between volcano and water? | Photos of different volcano, gayser | Students give examples, they try to recognize photos |
| 2-3 min | Step 2 | Teacher explains; **Fire, Water, and Ice.** What is gayser ? What does gayser do ? Is there any connection between gayser and volcano ? | Definition of Terms  | Students try to explain the terms |
| 20 min | Step 3 | Teacher writes 5 terms on the blackboard: PermafrostCryosphereGlaciersGeyserFault Source | İnteractive whiteboards Animations Slides with photos of different term | Students try to explain new terms |
| 8 min | Step 4 | Summing up all processes | Discussion | Class work |
| 9 min | Step 5 | On line test<http://study.com/academy/exam/topic/volcanoes.html> <http://hs-staffserver.stjames.k12.mn.us/~fraken/Earth%20Science%20Files/Grade%208%20Practice%20Quizzes/volcanoesquiz.html> <http://www.helpteaching.com/search/volcano>  | test | Students’ individual or group work |

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