



OUTDOOR LESSON PLAN

School	Agrupamento de Escolas de Moure e Ribeira do Neiva
Subject	Science outdoors
Topic/Theme	Simulation of an effusive volcanic eruption
Timeframe	June 2022
Level	Eight grade

Activity	<ul style="list-style-type: none"> - Simulation of an effusive volcanic eruption.
Objectives	<ul style="list-style-type: none"> - Distinguish the types of volcanic eruptions; - Observe the different materials exploded in volcanic eruptions; - Understand the geodynamics of the planet; - Improve student's teamwork; - Improve student's contact with the environment, understand and respect nature; - Develop interest in experimental sciences.
Material Media Resources needed	<ul style="list-style-type: none"> - Baking soda; - Liquid dishwashing detergent; -Red food coloring; - Vinegar; - Volcano model with metal/glass container.
Description/ Step-by-step Procedure	<ol style="list-style-type: none"> 1. In the container, inserted in the volcano model mix the following ingredients: bicarbonate of soda, liquid detergent and food colouring; 2.Slowly add vinegar; 3.Observe the results. <p>Explanation</p> <p>Effusive volcanic activity occurs when lava viscosity and gas contents are low. While reacting to sodium bicarbonate, vinegar causes the release of gas which is responsible for the rising of the red detergent, reminding lava flows, common to effusive type of volcanic activity. Lava cloaks or rivers can be formed in this type of volcanic activity.</p>

