

# Unit 5: Earth's Materials and Systems

## Lesson Plan

<b>Disciplinary Core Areas</b>	<b>Earth's Materials and Systems</b>
<b>NGSS:</b>	<p><b>MS-ESS2-2</b> Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales.</p> <p><b>MS-ESS2-3</b> Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions.</p> <p><b>3-3</b> Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.</p>
<b>Lesson Title</b>	Volcanoes
<b>Lesson Number</b>	5-7
<b>Learning objectives:</b>	<ul style="list-style-type: none"> <li>• Define terms that are related to volcanoes.</li> <li>• Identify the processes involved in the formation of volcanoes.</li> <li>• Name and identify the different parts of a volcano.</li> <li>• Classify volcanoes into different categories.</li> <li>• Classify the different types of volcanic eruptions.</li> <li>• Determine the hazards of volcanic eruptions.</li> </ul>
<b>"I can" statement:</b>	I can describe the processes involved in the formation of volcanoes, its types, and the hazards it brings.
<b>Prior Knowledge:</b> Plate Tectonics, Plate Boundaries	
<b>Vocabulary:</b> Volcano, Erupt/Explode, Magma, Lava, Volcanic Ash, Gases, Tectonic Plates, Convergent Plate Boundaries, Hotspot Volcanism, Thermal Plume, Parasitic Cone, Sill, Crater, Volcanic Vent, Flank, Conduit, Summit, Throat, Ash Cloud, Shield Volcano, Cinder Cone Volcano, Stratovolcano/Composite Volcano, Pyroclast, Active Volcano, Dormant Volcano, Extinct Volcano, Tephra, Plinian Eruptions, Basaltic Magma, Lahar/volcanic Mudflow	
<b>Summary of Activities:</b> <ol style="list-style-type: none"> <li>1. Distribute and complete bell ringer activity.</li> <li>2. Discuss guided notes and slideshows with students.</li> <li>3. Do laboratory activity with students.</li> <li>4. Exit quiz</li> </ol>	
<b>Additional Resources:</b> <ul style="list-style-type: none"> <li>• Online Activities</li> </ul>	
<b>Homework:</b> <ul style="list-style-type: none"> <li>• Assignment</li> </ul>	
<b>Assessment:</b> <ul style="list-style-type: none"> <li>• Bell work</li> <li>• Assignment</li> </ul>	

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- Exit quiz
- End of unit review