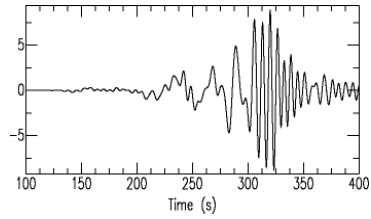
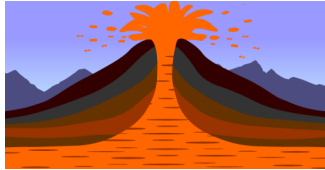


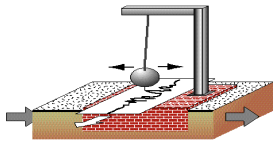



# Volcanoes and Earthquakes

S6E5. Obtain, evaluate, and communicate information to show how Earth's surface is formed.



A. Ask questions to compare and contrast the Earth's crust, mantle, inner and outer core, including temperature, density, thickness and composition.

Term	Info	Picture																																																							
Seismic waves	a vibration in rock that travels out from the focus of an earthquake in all directions; seismic waves can also be caused by explosions																																																								
Volcanoes	a vent or fissure in the Earth's surface through which magma and gases are expelled																																																								
Earthquakes	a movement or trembling of the ground that is caused by a sudden release of energy when rocks along a fault move																																																								
Tsunami	a giant ocean wave that forms after a volcanic eruption, submarine earthquake, or landslide																																																								
Seismograph	an instrument that records vibrations in the ground																																																								
Richter Scale	a scale that expresses the magnitude of an earthquake	 <p><b>RICHTER SCALE of earthquake energy:</b></p> <p>Each level is <b>10 times stronger</b> than the previous level</p> <table border="1"> <thead> <tr> <th></th> <th>Description</th> <th>Occurrence</th> <th>In Population</th> <th>Movement</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SMALL</td> <td>DAILY</td> <td>every minute</td> <td>small</td> </tr> <tr> <td>2</td> <td>SMALL</td> <td>DAILY</td> <td>every hour</td> <td>small</td> </tr> <tr> <td>3</td> <td>SMALL</td> <td>DAILY</td> <td>every week</td> <td>small</td> </tr> <tr> <td>4</td> <td>SMALL</td> <td>DAILY</td> <td>every month</td> <td>moderate motion</td> </tr> <tr> <td>5</td> <td>MODERATE</td> <td>MONTHLY</td> <td>every 10 years</td> <td>strong motion</td> </tr> <tr> <td>6</td> <td>MODERATE</td> <td>MONTHLY</td> <td>every 30 years</td> <td>strong motion</td> </tr> <tr> <td>7</td> <td>MODERATE</td> <td>MONTHLY</td> <td>every 100 years</td> <td>strong motion</td> </tr> <tr> <td>8</td> <td>GREAT</td> <td>YEARLY</td> <td>every 100 years</td> <td>very severe</td> </tr> <tr> <td>9</td> <td>GREAT</td> <td>YEARLY</td> <td>every 100 years</td> <td>very severe</td> </tr> <tr> <td>10</td> <td>DISASTROUS</td> <td>YEARLY</td> <td>every 100 years</td> <td>very severe</td> </tr> </tbody> </table>		Description	Occurrence	In Population	Movement	1	SMALL	DAILY	every minute	small	2	SMALL	DAILY	every hour	small	3	SMALL	DAILY	every week	small	4	SMALL	DAILY	every month	moderate motion	5	MODERATE	MONTHLY	every 10 years	strong motion	6	MODERATE	MONTHLY	every 30 years	strong motion	7	MODERATE	MONTHLY	every 100 years	strong motion	8	GREAT	YEARLY	every 100 years	very severe	9	GREAT	YEARLY	every 100 years	very severe	10	DISASTROUS	YEARLY	every 100 years	very severe
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## Learning Targets:

1. I can explain how earthquakes and volcanoes change geologic features, such as mountains.
2. I can describe where most earthquakes and volcanoes are found.
3. I can describe and evaluate causes and effects of earthquakes and volcanoes.



# Volcanoes and Earthquakes

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