IAME	
	- 1

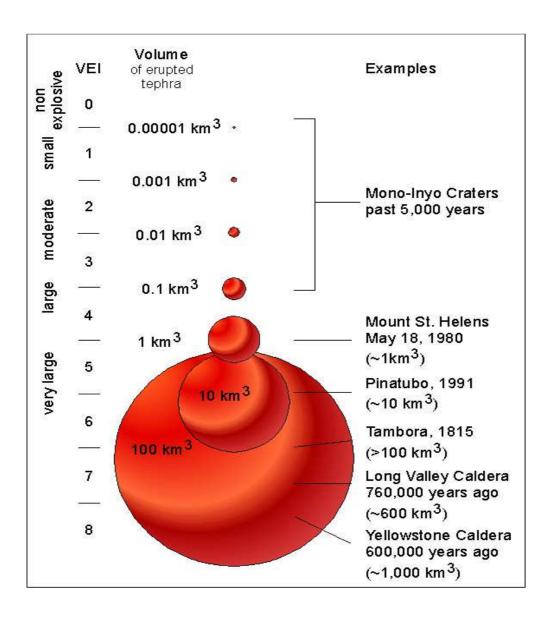
VOLCANOES INTERACTIVE

http://www.learner.org/interactives/dynamicearth/slip2.html

CAN WE PREDICT VOLCANIC ERUPTIONS?

LAVA TYPES

Find out about the three types of lava and how they affect the type of volcanic eruption
BASALT
ANDESITE
RHYOLITE



Relate the 3 lava types to numbers of The VEI scale

BASALT	
ANDESITE	
RHYOLITE	

DYNAMIC EARTH
Briefly describe the 3 main types of plate settings that produce volcanic eruptions
COLLIDING/DESTRUCTIVE/CONVERGING

SEPARATING/CONSTRUCTIVE/DIVERGING			
HOT SPOTS			
Add labels and commentary to each of the diagra	ms below to relate volcanic activity to plate setting		
Oceanic crust Lithosphere As thenosphere	Oceanic crust Lithosphere Asthenosphere Oceanic-oceanic convergence		
Develore Rose Rose Michocarric Roge Rose Rose Rose Rose Rose Rose Rose Ros	"Hotspot" Volcano (e.g., Hawaii)		
	Oceanic Crust Volcanic Rock Water Liquid		
Ocean Cod	Upper Mantle		

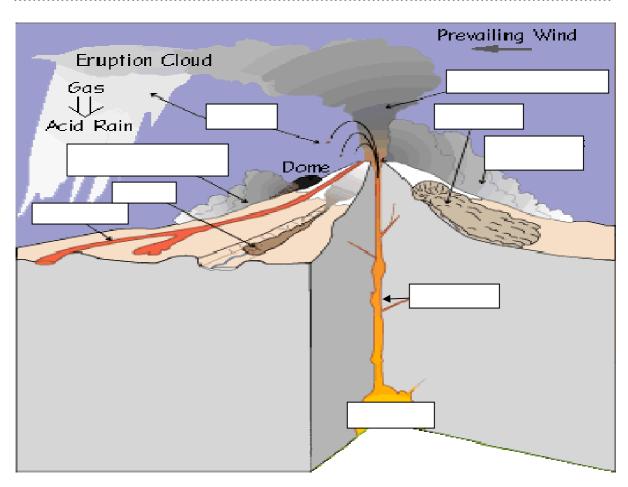
HAZARDS

Write a couple of sentences on each of the main volcanic hazards and label the diagram

AND GO TO THIS SITE FOR MORE ON VOLCANIC HAZARDS

http://www.explorevolcanoes.com/volcanic-hazards.html

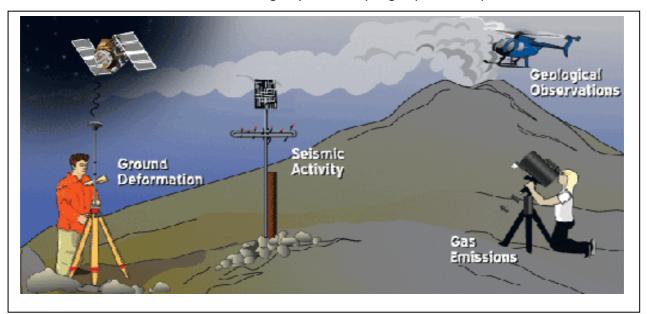
LAVA
ASH
PYROCLASTIC FLOW
TEPHRA



Type of plate Nature margin Of activity	Constructive plate margin	Destructive plate margin
Type of magma	Basaltic	Andesitic Acidic
Characteristics of Lava	Runny (low silica)	Increasing viscosity (high silica)
Type of eruption	Low level of violence gases escape easily	Potentially explosive
Eruption height	1km	Over 17km to tropopause
Materials Produced	Mostly lava	Tephra and pyroclastics
Frequency	Regular/continuous	Sporadic; periods of dormancy
Form of volcano	Lava plateau; shield volcano	Acid lava domes; composite cones
Classification	Icelandic	Vulcanian > Plinian

FORECASTING ERUPTIONS

Write a short section on each of the following ways of attempting to predict eruptions



And visit this site to get more information on predicting volcanic eruptions

http://www.edu4hazards.org/volcano/predict.html

GROUND DEFORMATION

What geological observations could be made?			
COPING WITH THE RISK (MITIGATION)			
Write brief notes on the following methods of mitiga	ation		
REMOVING THE THREAT			
PLANNING			
DISASTER PREPAREDNESS			
Now read the following 2 articles and add any new	info to your notes		
http://pubs.usgs.gov/gip/volc/			
http://pubs.usgs.gov/gip/monitor/			