

















TABLE 6.2	Types of Volcano	es				
Volcano Type	Shape	Silica Content of Magma	Viscosity	Rock Type Formed	Eruption Type	Example
Shield volcano	Gentle arch, or shield shape, with shallow slopes; built up of many lava flows	Low	Low	Basalt	Lava flows, tephra ejections	Mauna Loa, Hawaii Figure 6.5
Composite volcano, or stratovolcano	Cone-shaped; steep sides; built up of alternating layers of lava flows and pyroclastic deposits	Intermediate	Intermediate	Andesite	Combination of lava flows and explosive activity	Mt. Fuji, Japan Figure 6.7
Volcanic dome	Dome shaped	High	High	Rhyolite	Highly explosive	Mt. Lassen, USA Figure 6.8
Cinder cone	Cone shaped; steep sides; often with summit crater	Low	Low	Basalt	Tephra (mostly ash) ejection	Springerville, AZ Figure 6.9

II. Types of Volcanoes

Tectonics → mag	ma type -> volcanic features		
Magma type → er	uption type		
Magma Type:	viscosity, water content		
silica content:	silica content: more silica = higher viscosity = more explo		
water content:	more water (as a gas) = more explosive		
temperature:	hotter = lower viscosity		
rocks produced:	low silica = basalt		
	middle silica = andesite		
	high silica = rhyolite		
	1	2	





































