





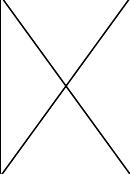






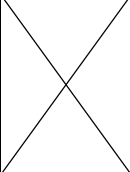


Texture	Image	Crystals	Formation	Example
Glassy		No crystals are formed.	Occur when molten lava cools down very quickly and crystals do not have time to form. The 'skin' of the lava has a glassy texture.	Obsidian
Phaneritic		This is a coarse-grained stone. The grains are large enough to be identified without a microscope.	Forms through slow cooling inside of the crust (intrusive igneous rock). They are not related with volcanism.	Granite, gabbro, diorite
Porphyritic		Two distinct sizes of crystals cemented together.	This indicates that the rock has had 2 stages of cooling. The first being a slow cooling where larger crystal grains were formed. The second stage was more rapid, forming smaller crystals. This indicates that the rock was brought closer to the surface (through erosion or uplift)	Porphyry
Pyroclastic		Fragments from volcanic eruptions are cemented together. This may include ash and crystals.	Rocks that are made from volcanic material and are cemented together. This is typical at convergent plate boundaries.	Volcanic tuff
Aphanitic		Crystals are too small to be seen without the aid of a microscope.	Forms through rapid cooling, usually in volcanic environments or just beneath the Earth's surface	Basalt, rhyolite, andesite
Vesicular		There may be no crystals at all, or microscopic crystals along with air pockets.	This is an extrusive igneous rock that chilled very quickly, so that the bubbles (vesicles) formed by escaping gas were preserved.	Pumice, Scoria

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