

Gross Structure	Texture/particle size/appearance	Mineral content / composition / color	ROCK NAME	
Random, interlocking x-tals (no pattern visible) and/or Bubbly or foamy appearance (IGNEOUS ROCKS)	Large / Coarse Naked Eye X-tals	Light (Pink / White) (Felsic)	GRANITE	
		Grey / Brown (Intermediate)	DIORITE	
		Dark (Green / Black) (Mafic)	GABBRO	
	Small / Fine Microscopic X-tals	Light (Pink / White) (Felsic)	RHYOLITE	
		Grey / Brown (Intermediate)	ANDESITE	
		Dark (Green / Black) (Mafic)	BASALT	
	Glassy	Dark (Brown / Black)	OBSIDIAN	
	Bubbly / Foamy (volatiles escaping)	Light, Foamy, floats	PUMICE	
		Dark, bubbly	SCORIA BASALT	
	Particles cemented together and/or uniform layers of similar minerals and/or Fossils present (SEDIMENTARY ROCKS)	Pebbles (Coarse)	Rounded Pebbles	CONGLOMERATE
Angular Pebbles			BRECCIA	
Fossils may be present		Sand Sized	Many colors	SANDSTONE
		Silty/ muddy sized particles	Often grey, red, or black	SILTSTONE
		Clayey particles (Fine) ('earthy' smell when wet)	Usually grey or black Sometimes contain fossils	SHALE
		“fizzes” in HCl	Usually ranges from dark to light grey	LIMESTONE
Distorted layers of platy minerals and/or alternating bands of light and dark minerals and/or interlocking calcite x-tals and/or dense, hard quartz.		Smooth, fine, looks like shale but is more dense, solid Shows 'slatey cleavage'	Greyish Black	SLATE
	Shiny surfaces, distorted 'layers' visible on sides	Grey/Greenish/Black	PHYLLITE	
	Individual mica x-tals visible, shiny on surface, distorted 'layers' visible on sides	Silvery gray, brown	SCHIST	
	Clear banding of light and dark colored minerals. Very 'solid'	White to Black	GNEISS	
	Interlocking x-tals of calcite Looks 'frosty' or 'sugary'	Usually light	MARBLE	
	Very hard, resistant. Weathered surfaces often very smooth, fractured surfaces very fine grained	Variable	QUARTZITE	