








METAMORPHICS ROCKS

TEXTURE	TEXTURE	PROTOLITH	METAMORPHIC ROCK	
NON FOLIATED	Blocky grains of quartz (hardness 7).	Sandstone or Siltstone	Quartzite	
	Blocky grains of calcite (hardness 3). Fizzes with dilute HCl.	Limestone	Marble	
	Fine-grained, various colours.	Shale or Basalt	Hornfels	
	Soft (hardness ~3), glossy, and black, with low specific gravity (~1.4).	Bituminous Coal	Anthracite	
FOLIATED	Alternating bands of light- and dark-coloured minerals (dark minerals are usually biotite or amphibole), called gneissic banding.	Shale or Igneous Rock	Gneiss	
	Contains shiny muscovite (light) or biotite (dark) micas. May also have quartz, talc, garnet (red arrow), amphibole. Schistose pattern of foliation.	Shale	Schist	
	Fine-grained rock with the grains only visible as a satin sheen. Similar to slate, but with a satin lustre and may have wrinkled cleavage.	Shale	Phyllite	
	Very fine-grained rock, tends to split in parallel fragments (known as slaty cleavage).	Shale	Slate	