

Scheme for Metamorphic Rock Identification

TEXTURE		GRAIN SIZE	COMPOSITION				TYPE OF METAMORPHISM	COMMENTS	ROCK NAME	MAP SYMBOL		
FOLIATED	MINERAL ALIGNMENT	Fine	MICA	QUARTZ	FELDSPAR	AMPHIBOLE	GARNET	PYROXENE	Regional (Heat and pressure increases)	Low-grade metamorphism of shale	Slate	
		Fine to medium								Foliation surfaces shiny from microscopic mica crystals	Phyllite	
	BAND-ING	Medium to coarse								Platy mica crystals visible from metamorphism of clay or feldspars	Schist	
		High-grade metamorphism; mineral types segregated into bands								Gneiss		
NONFOLIATED	Fine	Carbon	Regional	Metamorphism of bituminous coal	Anthracite coal							
	Fine	Various minerals	Contact (heat)	Various rocks changed by heat from nearby magma/lava	Hornfels							
	Fine to coarse	Quartz	Regional or contact	Metamorphism of quartz sandstone	Quartzite							
		Calcite and/or dolomite		Metamorphism of limestone or dolostone	Marble							
	Coarse	Various minerals		Pebbles may be distorted or stretched	Metaconglomerate							