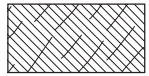
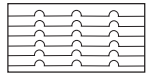
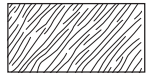
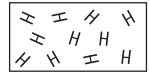
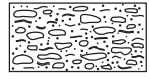
Scheme for Metamorphic Rock Identification

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**	
				Platy mica crystals visible from metamorphism of clay or feldspars	**Schist**	
FOLIATED — BAND-ING	Medium to coarse			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**