TABLE 6-1. CLASSIFICATION OF METAMORPHIC ROCKS

TEXTURE		PARTICLE SIZE	COMPOSITION	COMMENTS	ROCK NAME
ORIENTED GRAINS	Foliated	Fine grained, minerals not visible	Clay minerals, micas	Dense	Slate
			Clay minerals, micas	Satiny luster	Phyllite
	Foliated or Lineated	Medium to coarse grained, minerals visible	Muscovite, biotite, chlorite, talc, garnet, kyanite, staurolite, quartz, ferromagnesian minerals.	Rock name is preceded by diagnostic minerals such as garnet mica schist, kyanite biotite schist, hornblende schist	Schist
	Banded		Feldspars, quartz, micas, ferromagnesian minerals.	Banding due to alternation of light and dark minerals	Gneiss
NON-ORIENTED GRAINS		Medium to coarse grained, minerals visible	Calcite ($CaCO_3$)	Hardness of 3; fizzes rapidly with dilute HCl	Marble
			Dolomite $(Ca,Mg)(CO_3)_2$	Fizzes with dilute HCl only when powdered	Dolomitic Marble
			Quartz (SiO_2)	Hardness of 7; breaks across grains	Quartzite
			Amphiboles	Generally black; prismatic crystals with 2 directions of cleavage at 120°	Amphibolite
			Anything that could be a conglomerate	Breaks across grains as well as around them	Metaconglomerate
		Fine grained, minerals not visible	Clay minerals, micas	Dense, dark colored	Hornfels
			Carbonaceous material	Black, shiny, conchoidal fracture	Anthracite Coal
Cataclastic		Fine to coarse	Any minerals	Fragments	Mylonite