

TEXTURE	ROCK NAME	DIAGNOSTIC FEATURES		
Foliated (mostly products of regional metamorphism)	Slate	Dense, variably colored (black to red) rock composed of microscopic grains and crystals. May display rock cleavage and a subtle sheen along partings		
	Phyllite	Fine-grained rock characterized by prominent glossy sheen. Variably colored.		
	Schist	Fine to medium grained rock displaying a distinctive and frequently wavy layering of platy mica minerals (schistose texture). Schists are named after the dominant minerals comprising them. See adjacent column for <u>most</u> of the names that you are responsible for in GY 111L. There are many other possible combinations.	<i>Minerals</i>	<i>Rock name</i>
			chlorite	chlorite schist
			garnet and chlorite	garnet chlorite schist
			muscovite & biotite	mica schist
			talc	talc schist
			graphite	graphite schist
			garnet & mica	garnet mica schist
			amphibole	amphibole schist (amphibolite)
kyanite			kyanite schist	
staurolite	staurolite schist			
sillimanite	sillimanite schist			
calcite/limestone	schistose marble			
Gneiss	Coarse-grained rock characterized by layering of light (quartz and feldspar) and dark (biotite) minerals.			
Augen gneiss	Coarse-grained rock characterized by layering of light (quartz and feldspar) and dark (biotite) minerals with larger "eye"-shaped crystals of garnet, quartz feldspar etc.			
Non-Foliated (products of contact and regional metamorphism)	Quartzite	Crystalline, hard (H=7) rock of variable color (white, green, grey, yellow, red etc.). May display conchoidal fracture. Called schistose if there is a weak foliation.		
	Marble	Crystalline, soft (H=3) rock of variable color (white, green, grey, yellow, red etc.). Fizzes with HCl. Called schistose marble if there is a weak foliation.		
	Dolomitic marble	Crystalline, soft (H=3) rock, generally white or pink in color. Does <u>not</u> fizz with HCl unless powdered. Called schistose marble if there is a weak foliation.		
	Metaconglomerate	Texture of conglomerate, but breaks through pebbles. Pebbles may be deformed.		
	Hornfels	Light gray to black to green, massive rock that has been baked due to contact with a pluton. Resembles basalt.		
Cataclastic	Mylonite	Fine to coarse grained rock consisting of several types of angular to sub-rounded clasts set in a fine-grained foliated matrix		