Metamorphic Rock Samples

Sample number	Rock name	Luster	Hardness	Color	Streak	Foliation	Texture/ Grain size	Composition	Parent	Pressure/ temperature conditions	Origin	Classification
37, large box	gneiss, p. 213	non-metallic	>5.5	grayish white	light gray	foliated, crystalline	coarse	migmatites, granites	granite or shale	high pressure, high temperature	mountain ranges	regional
35, large box	hornfels, p. 219	non-metallic	<3.5	dull black	too hard	non-foliated, crystalline	fine-grained	quartz, mica, pyroxene	siltstone or basalt	low pressure, high temperature, thermal metamorphosis following granite intrusion	contact aureoles	contact
38, large box	marble, p. 216	non-metallic	5.5> >4.5	milky white	white	non-foliated	variable grain size	calcite, calcium carbonate	limestone	low pressure, high temperature	contact aureoles	contact
15, small box	phyllite, p. 210	non-metallic		pale grayish green		foliated	medium	garnet porphyroblasts	shale	low to moderate pressure, low temperature	mountain ranges	regional
40, large box	quartzite	glassy	7	dark rose	too hard	non-foliated	variable grain size	quartz grains	quartz sandstone		contact aureoles	contact
39, small box	schist, mica p. 211	non-metallic	=5.0	gray	gray	foliated	medium to coarse-grained	sparkles	shale	pressure and temperature conditions vary	mountain ranges	regional
36 large box	slate, plate 10, p. 208	non-metallic	<2.5	dull gray	dark gray	foliated	fine-grained	compression of mud	shale	low pressure, low temperature	mountain ranges	regional