Development of Barrovian Metamorphic Rocks From a Shale Parent						
	Sedimentary Processes	Green	ischist	Amphibolite Facies	Granulite Facies	Igneous Processes
	Clay SiO2 Fe oxides Organic matter	Very small crystals of chlorite	Larger chlorite crystals. Fine grained quartz and feldspar	Chlorite gone. Qtz, feldspar, mica common New Minerals include: garnet, staurolite, kyanite, andalusite, etc.	Quartz, feldspar mica dominate. Other minerals break down.	Rock melts to produce FELSIC magma.
Texture	Sedimentary bedding	foliation leading to good, flat	Coarser grained	Schistosity Minerals completely intermixed, but with micas (biotite or muscovite) all aligned.	Mineral Banding Quartz and feldspar migrate into separate bands from micas.	MIGMATITE Partial (fractional) melting. Highly deformed rock with swirls of
Distinguishing Features	Dull sound when struck; it "thunks"	More dense than shale. More luster than shales, less than phyllite	Has definite sheen in reflected light. Foliation begins to produce an undulating surface.	Minerals large enough to be easily identified. Index minerals important: biotite ⇒ garnet ⇒staurolite⇒ kyanite ⇒sillimanite	Defining bands of light and dark colored minerals	granite within banded gneiss.