Barsby Earth Science

Name: _____

Section: _____

Metamorphic Rocks

Q2. Fill in the table for the following metamorphic rocks.

Sample Number	Foliated or Non-foliated?	Texture(s) Grain size	Mineralogical composition and other distinguishing features?	Rock Name
MR1				Quartzite (white)
MR2				Quartzite (Pinkish)
MR3				Gneiss
MR4				Granite Gneiss
MR5				Marble
MR6				Slate

MR7				Mica Schist
MR8				Mica Schist
MR9				Garnet Schist or Garnet Phyllite (It's between)
MR10				Phyllite

Q3. Get a sample of Marble and a sample of Quartzite. Make sure you know which is which. Examining the two samples explain how you might tell them apart.

Q4. Get a sample of Sandstone from the sedimentary lab and a sample of Quartzite. Make sure you know which is which. Examining the two samples explain how you might tell them apart. Quartzite is a metamorphic rock formed from sandstone.

Q4. Metamorphic grade is a general term for describing the relative temperature and pressure conditions under which metamorphic rocks form. As the temperature and/or pressure increases on a body of rock we say that the grade of metamorphism increases. The four most common types of foliated rock, in order of increasing metamorphic grade are slate, phyllite, schist, and gneiss. Describe one difference that occurs between each grade of metamorphism.

Slate -> Phyllite -> Schist -> Gneiss