

Geology 2 – Physical Geology Lab

Lab #7 – Metamorphic Rock Identification

Student Outcomes:

- Be able to identify and name the six common metamorphic rock types examined in lab
- Recognize and understand textures that differentiate foliated and non-foliated rocks
- Understand why metamorphic rocks are classified by both texture and composition.
- Be able to identify and name the common minerals in different types of metamorphic rocks.
- Be able to interpret and describe the tectonic environment of each of the six common metamorphic rocks.
- Understand and be able to use the new terms listed in Part II

Materials:

- Part I - Six stations of metamorphic rock samples with photographs and figures.
- Part II – List of terminology used in the study of metamorphic rocks
- Part III – 7 mystery metamorphic rock samples
- Hand lens or magnifying glass
- Student textbook with the descriptions of the metamorphic rocks

Logistics: The lab is in three parts.

Part I – Rotate to various stations at which you will observe various samples of metamorphic rocks. Become familiar with the differences in texture and mineral compositions of the different rocks. Review the accompanying photographs and figures at each station. Answer the questions on the lab worksheet.

Part II – Add your notes and definitions to the list of new terminology for your own use.

Part III - Determine the name and list an identifying characteristic of each of the seven mystery metamorphic rock samples.

Part I. Classification, Characteristics, and Identification of Metamorphic Rocks

What is Metamorphism? Metamorphism is the changes in mineral composition and texture of a rock subjected to high temperature and pressure within the Earth. Metamorphism means to “change form”. Metamorphic rocks are produced from preexisting rocks – igneous, sedimentary, or metamorphic. The preexisting rock is called the parent rock.

Classification of metamorphic rocks: classify metamorphic rocks by texture and composition, as with the other rock types at which we have looked in lab.

Metamorphic textures:

- Texture is used to describe the size, shape, and arrangement of grains in a rock
- Two types of metamorphic textures are
 - 1) Foliated
 - In low-grade metamorphism, rocks tend to become more dense and compact
 - Under more extreme pressure, stress causes minerals to recrystallize or grow larger. The recrystallization can cause a realignment of mineral grains that results in a layered or banded appearance termed foliated texture.
 - Foliation describes the parallel alignment of minerals in a rock, or banding
 - 2) Nonfoliated.
 - Found in metamorphic rocks composed of one mineral that form equidimensional crystals; interlocking crystals
 - Does not show foliation or banding

Lab Manual In Physical Geology Metamorphic Rock

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