

**METAMORPHIC ROCKS**

**OBJECTIVE:** To become familiar with rocks formed by metamorphic processes.

- A. Identify the 7 metamorphic rocks found in the 101 cabinet in Rooms N110 ESC Also, determine the texture and a (one) possible protolith for each sample.

Name	Texture	Protolith
1. Schiste	foliated	basalt
2. Marble	non-foliated	limestone
3. Amphibolite.	Foliated	basalt
4. Slate.	Non-foliated	shale
5. Geniess	foliated	quartz
6. metaconglomerate	foliated	conglomerate
7. Quartzite	non-foliated	quartz

- B. Using the samples in room N-110 by the bulletin board, answer the following questions.

- Identify the texture of samples 3-3, 3-9, and 3-13.
  - Non-foliate
  - Foliated
  - Non-foliated
- What name would you give these three rocks?
  - Slate
  - Metaconglomerate

- marble

3. Describe the metamorphic history for sample 3-7.

- lots of pressure and temperature changes

4. Determine a protolith for sample 3-1.

- shale

5. Determine a protolith for sample 3-12.

- basalt