

Geology 101
Walk-In Lab #2
IGNEOUS ROCKS
Due: 1/23/13

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OBJECTIVE: To become familiar with rocks formed by igneous processes.

A. Identify the 10 igneous rocks and their textures, in the 101 cabinet in Room N127 ESC.

1. Pumice(light)
2. Gabbro (fragments)
3. Diorite(speckling)
4. Tuff(light)
5. Rhyolite (texture)
6. Andesite (color)
7. Obsidian (glassy)
8. basalt (color)
9. Peridotite (color)
10. Granite (rock fragments)

B. Go into room N111 and using the samples in the front of the room by the windows, answer the following questions.

1. Rock sample 1-1 contains very coarse minerals. There are three different ones, can you identify them? What texture is this rock? What name would you give it?
 - phaneritic texture, contains feldspar, biotite, and quartz. We would call this granite
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2. Sample 1-4 is a porphyritic andesite. Even though it is an extrusive rock it has some very large crystals. Explain how they formed?

- by the slow cooling of magma

3. What is the texture of rock 1-8?

- glassy and coarse

4. Explain the origin of rock 1-12? What would you call it? Why is it so light weight?

- pumice, its so light weigh because of lava full of gas