

Critical Thinking – Igneous Rocks

Name: _____

1. How is the chemistry of mafic rocks different from felsic rocks?

2. Why is granite found as a major component of continental crust and basalt found as a major component of oceanic crust?

3. How does a porphyritic texture form?

4. What processes cause magma to change as it migrates in the crust?

5. Using these diagrams indicate at least one location where you would find each of the seven major igneous rocks:

- a. Granite
- b. Rhyolite
- c. Diorite
- d. Andesite
- e. Gabbro
- f. Basalt
- g. Peridotite

6. Describe the magma differentiation process(es) leading to the formation of each of these rocks.

