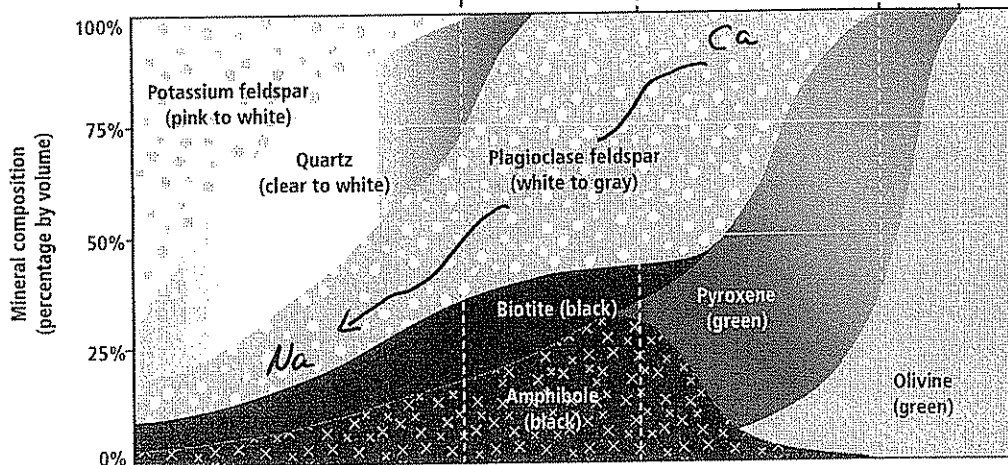


Classification of Igneous Rocks

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Extrusive	Felsic	Intermediate	Mafic	Ultramafic	Texture	
		Obsidian		Scoria		Glassy (non-crystalline)
	Rhyolite	Andesite	Basalt		Fine-grained	
Intrusive	Granite	Diorite	Gabbro	Peridotite	Dunite	Coarse-grained
	Pegmatite					Very coarse-grained



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Classification of Igneous Rocks

1. What four types of igneous rocks are represented in the table and graph?

2. Use the table to compare and contrast the textures of the extrusive rocks and intrusive rocks.

3. How do basaltic glass and gabbro differ? How are they similar?

4. Which types of igneous rocks are composed of at least 50 percent olivine?

5. Use the graph to explain why felsic rocks are usually light-colored and mafic rocks are usually dark-colored.

6. How would you classify a fine-grained, igneous rock that contains approximately 25 percent amphibole, 15 percent biotite, and 60 percent plagioclase feldspar?

7. Approximately how much biotite is a sample of gabbro likely to contain?

8. Which contains a greater percentage of quartz—granite or diorite?
