GLY 4310	
Homework Exercise	2

Name		
name		

Review of Extrusive Igneous Rocks

The following homework is based on the lab lectures for labs 4 and 5. The PowerPoint versions are available on the web pages.

1. MORB stands for					
2-3. Basalts displaying a "pillow" structure are believed to have formed in one of two ways.					
These are:					
2					
3					
4-5. In the terminology used in the United States, the major minerals of diabase are					
4) and 5)					
6. Diabasic texture is (name and describe):					
7-9 The major minerals of andesite are:					
7) major felsic mineral (name and variety)					
8) most common mafic mineral					
9) other possible mafic minerals and					
10. What is the major difference between dacite mineralogy and andesite mineralogy?					
11-12 A lithic fragment is 11), while a vitric fragment is					
12)					
13-14 Compare bombs and blocks.					
13) (bomb)					
14) <u>(block)</u>					

15. The names o	f extrusive rocks, when based on phenocrysts, should be preceded by the	prefix
16. A	is an individual particle ejected during a volcanic eruption, a	nd is
usually classified	according to size.	
17-19 Welded tu	ff is siliceous tuff indurated by the welding together of glass particles un	ider the
combined action	of three agents, which are:	
17)		
	des into as quartz content decreases.	
21-22 Typical al	kali feldspars phenocrysts in rhyolite are:	
21)		or
22)		
	P/(A+P) range for latite?	
24-26. Trachyte	mineralogy:	
24) Major type o	f feldspar	
25) Composition	al range of plagioclase:	
26) Most commo	on mafic:	
27-29. What are	the water contents of the following rocks?	
27) Obsidian		
29) Pitchstone _		
	l composition of both pumice and vitrophyre is like that of which extrusi	ve
rock?		
\4310\HW\4310HW2_S12 February 24, 2012		