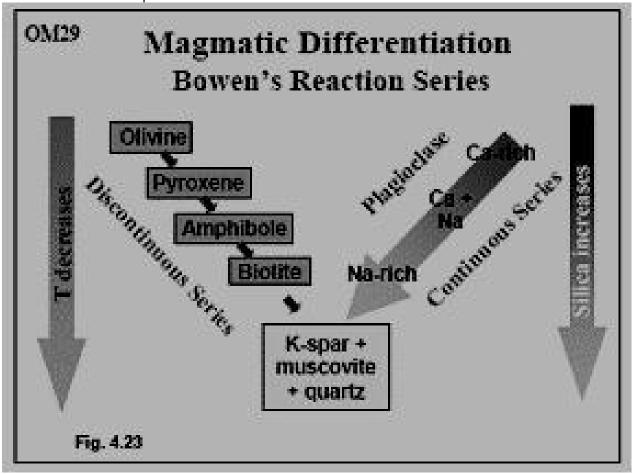
			Igneous Ro	00	k Lab				
Ea	rth	Science				Mr. Traeger			
Naı	me:		Period:		Date:				
The			tigate the composition	n a	nd texture of igneous rocks	. We will also			
<u>Ma</u> •	teria Ign Ru	eous Rock Samples	•		Hand Lenses Textbook pages 124 and 7	703			
1. 2.	 Procedure Get together with a lab partner and select an igneous rock at the front of the classroom. Go through the Igneous Rock Identification Table and find the required information to help you to identify the rock. Use this information and the textbook/rock guides to help you with your identification Repeat this procedure for all 12 rocks. 								
<u>Dat</u> See		neous Rock Identification T	able.						
<u>Qu</u>		ons What is the easiest way to	o tell the difference be	ŧw	een intrusive and extrusive	igneous rocks?			
	2.	Why did some of the rock	s have holes (pores) i	n t	hem?				
	3.				crystals to have the same m (Hint: see page 4 of your ro				
	4.	How does the depth at wh	nich an igneous rock fo	orr	ns affect its crystal size?				

5. We will fill in the following chart with correct names of rocks. Please write them in when we do.

Texture	Chemical Composition						
	Felsic	Felsic- intermediate	Intermediate	Mafic	Ultramafic		
Coarse-grained							
Fine-grained							
Glassy							
Porous							

6. Look at Bowencs Reaction Series below.



- 7. According to Bowence Reaction Series, what type of mineral will crystallize (freeze) first? Felsic or Mafic?
- 8. According to Bowence Reaction Series, what type of mineral will crystallize (freeze) last? Felsic or Mafic?
- 9. What does magmatic differentiation mean?
- 10. What is the difference between the discontinuous series and the continuous series?

Igneous Rock Lab							
Earth Science	Mr. Traeger						

Earth Colonice				mii Haegei		
Drawing of Rock and Rock Number	Size of Crystals in millimeters Vesicles (gas bubble openings)?	Texture: Aphanitic (fine grained) or Phaneritic (coarse grained)? Porphyritic (large crystals within smaller crystals)?	Felsic (light- colored), Intermediate, or Mafic (dark- colored)?	Composition Minerals? What minerals are in this rock based upon the ID chart?	Intrusive (formed deep within Earth) or Extrusive (formed at the surface)?	Possible ID? Use chart in blue binder and igneous rock guides
1						
2						
3						
4						
<u>5</u>						
<u>6</u>						

Igneous Rock Lab							
Earth Science	Mr. Traeger						

Drawing of Rock and Rock Number	Size of Crystals in millimeters Vesicles (gas bubble openings)?	Texture: Aphanitic (fine grained) or Phaneritic (coarse grained)? Porphyritic (large crystals within smaller crystals)?	Felsic (light- colored), Intermediate, or Mafic (dark- colored)?	Composition Minerals? What minerals are in this rock based upon the ID chart?	Intrusive (formed deep within Earth) or Extrusive (formed at the surface)?	Possible ID? Use chart in blue binder and igneous rock guides
7		,				
8						
9						
10						
11						
12						