NAM	E:					PER	IOD:	D	OATE:
LAB	PARTI	NERS:							LAB #8
			R	OCK IDE	ENTIFICA	TION			
**N(	OTE TO						ONE BIG LA AND 9C)**		OR DIVIDED
<u>PHE</u>	NOME:	NON: Ama	azing ways	rocks are r	nade <u>https:</u>	//youtu.b	e/Vp S3BD	<u>iR-I</u>	
The the Rocks found history you to SEP's upon: Change MAT Rock TIMI PROCE 1. Fo	rememin each y of roc identification. Throu MS-ESS e Earth  ERIAL Sample  2 2 - 3  CEDURATION OF EACH	in types of aber their for sample. It is sample. It is sample. It is sample in the sample. It is sample in the sam	ormation by By looking of the following a model to and the flow  and Science R  ock, identif	very closely returned them to other wing SEP's to describe the of energy the egents Ref	y at the ply at these old have cerners.  (Science Erne cycling ochat drives the cycling och the c	hysical archaracterist tain thing agineering of Stability his process	Practices) wi and s	chara n uni n. Tl	ravel the his will allow touched  Earth Science
10	reference	ŕ	US ROCK		ine rock oa		T 1 or LAB		cteristics.
STAT	ION/S	AMPLE #		.~				<u> </u>	
9171		Color	□ Light C	olored	□ Dark C	olored	□ In Betwe	en	
	Com	position	□ Felsic		□ Mafic		□ In Betwe	en	
Grain	Size	□ 10 mm	or larger	□ 1mm to	o 10mm	□ less t	han 1mm	□N	Ion-crystalline
Text	ıre	□ Very C	oarse	□ Coarse	Grained	□ Fine	Grained	□ G	lassy Texture
es No	Key	Identifyin	g Feature						
	Are	there visible	le interlocki	ing crystals	s?		A	17	The same of the sa
		cular (gas					Contract of the second	100	一个 中国
an igr			tate why thi						

	(	Color	□ Light C	`olor	ed	□ Dark Co	olored	□ In Betwe	een
		position	□ Felsic	01010	<u> </u>	□ Mafic	Jiorea	□ In Betwe	
Grain S		□ 10 mm		T_ 1			_ 1	<u> </u>	
		□ Very C				0 10mm		than 1mm	□ Non-crystallin
Textu	ıre	U Very C	- Carse		oarse	Grained	□ Fine	Grained	☐ Glassy Textur
			Yes	No	Key	Identifying	g Featui	re	
	1				Are	there visible	e interlo	cking crysta	ls?
					Vesi	cular (gas p	ockets)	?	
What	is the 1	name of th	is igneous	rock	x?				
STAT		AMPLE #	-3 □ Light C	Colore	ed	□ Dark Co	olored	□ In Betwe	een
STAT	(			Color	ed	□ Dark Co	olored	□ In Betwe	
	Com	Color	□ Light C				Τ		
	Com Size	Color position	□ Light C □ Felsic or larger	1	mm to	□ Mafic	□ less 1	□ In Betwe	een
Grain S	Com Size	Color position	☐ Light C☐ Felsic or larger oarse	1 (	mm to	□ Mafic  10mm  Grained	□ less t	□ In Betweethan 1mm Grained	een □ Non-crystallin
Grain S	Com Size	Color position	☐ Light C☐ Felsic or larger oarse	1 (	mm to	□ Mafic  10mm  Grained  Identifying	□ less t □ Fine  Featur	□ In Between In Imm Grained  e	□ Non-crystallin □ Glassy Textur
Grain S	Com Size	Color position	☐ Light C☐ Felsic or larger oarse	_ 1	Coarse  Key Are t	□ Mafic  10mm  Grained  Identifying there visible	□ less t □ Fine  Feature interloce	☐ In Betweethan 1mm  Grained  e  eking crystal	□ Non-crystallin □ Glassy Textur
Grain S	Com Size	Color position	☐ Light C☐ Felsic or larger oarse	1 (	Coarse  Key Are t	□ Mafic  10mm  Grained  Identifying	□ less t □ Fine  Feature interloce	☐ In Betweethan 1mm  Grained  e  eking crystal	□ Non-crystallin □ Glassy Textur

		Color	□ Lig	ght C	olore	dl	□ Dark (	Colored	□ In Betwe	een		
	Com	position	□ Fe	lsic			□ Mafic		□ In Betwe	een		
Grain S	Size	□ 10 mm	or lar	ger	□ 1r	nm to	10mm	□ less 1	than 1mm	□N	lon-crys	stallin
Textu	ire	□ Very C	oarse		□ C	oarse	Grained	□ Fine	Grained	_ C	Glassy T	extur
			Г	<b>V</b> /	NI.	17	T.J 4°C	E4				
			-	Yes	No			ng Featu	re cking crysta	169		
			-					pockets)				
						V C51	cului (gue	pockets)	•			
What	is the 1	name of th	is igno	eous 1	rock?							
	ION/S	AMPLE #	<u>!5</u>								1	
	ION/S	AMPLE # Color	± <b>5</b>	ght C			□ Dark (	Colored	□ In Betwe			
STAT	ION/S ( Com	AMPLE # Color position	-5 □ Lig □ Fel	ght Co	olored	d	□ Mafic	T	□ In Betwe	een		
STAT Grain S	ION/S ( Com Size	AMPLE # Color position  10 mm	5 □ Lig □ Fel or larg	ght Co	olorec	d mm to	□ Mafic	□ less 1	□ In Betwe	een	Non-crys	
STAT	ION/S ( Com Size	AMPLE # Color position	5 □ Lig □ Fel or larg	ght Co	olorec	d mm to	□ Mafic	□ less 1	□ In Betwe	een	Non-crys Glassy T	
STAT	ION/S ( Com Size	AMPLE # Color position  10 mm	5 □ Lig □ Fel or larg	ght Co	olorec	d mm to	□ Mafic	□ less 1	□ In Betwe	een		
STAT Grain S	ION/S ( Com Size	AMPLE # Color position  10 mm	5 □ Lig □ Fel or larg	ght Co	olorec	d mm to	□ Mafic 10mm Grained	□ less t	□ In Betwe	een □ N		
STAT Grain S	ION/S ( Com Size	AMPLE # Color position  10 mm	5 □ Lig □ Fel or larg	ght Co	olorec	nm to	□ Mafic 10mm Grained  No K	□ less t □ Fine	□ In Betwo	een	Glassy T	`extur
STAT Grain S	ION/S ( Com Size	AMPLE # Color position  10 mm	□ Lig □ Fel or larg oarse	ght Co	olorec	mm to	□ Mafic 10mm Grained  No K □ A □ V	□ less to □ Fine  ey Idention re there viscesicular (g	☐ In Betweethan 1mm  Grained  fying Featu	een	Glassy T	exture

What is the name of this igneous rock?

		Color	□ Light (	Colored		Dark	Colored	□ In Betw	een	
	Com	position	□ Felsic			Mafi	c	□ In Betw	een	
Grain	Size	□ 10 mm	or larger	□ 1m	ım to 10	)mm	□ les	s than 1mm		Non-crystallin
Text	ure	□ Very (	Coarse	□ Со	arse Gr	ained	□ Fin	e Grained		Glassy Texture
1000	23	A PAN			Yes	No :	Key Iden	tifying Feat	ure	
						<u> </u>	Are there	visible interl	ocki	ng crystals?
4.4	See 1						Vesicular	(gas pockets	)?	
Wha	t is the	name of tl	his igneous	rock?						
		name of the	J	rock?						
	ΓΙΟΝ/S		J			Oark (	Colored	□ In Betwe	en	
	ΓΙΟΝ/S Co	AMPLE ;	# <u>7</u>			Oark (	Colored	□ In Betwe		
	ΓΙΟΝ/S Comp	AMPLE 3	#7 □ Light Co □ Felsic	olored		<i>l</i> afic	T		en	Jon-crystalline
STA	ΓΙΟΝ/S Comp Size	AMPLE 3	#7	olored 1mr		/afic	□ less	□ In Betwe	en	Jon-crystalline Glassy Texture
STA rain S	ΓΙΟΝ/S Comp Size	AMPLE 3 color cosition color 10 mm	#7	olored 1mr	□ I □ N n to 10r	/afic	□ less	□ In Betwe	en	
STA rain S	ΓΙΟΝ/S Comp Size	AMPLE 3 color cosition color 10 mm	#7	olored 1mr	□ I □ N n to 10r	/afic	□ less	□ In Betwe	en □ N	Glassy Texture
STAT	ΓΙΟΝ/S Comp Size	AMPLE 3 color cosition color 10 mm	#7	olored 1mr	□ I □ N n to 10r rse Grai	Mafic nm ned	□ less □ Fine  Key Id	☐ In Between In Imm  Grained  entifying Features	en	Glassy Texture
STAT	ΓΙΟΝ/S Comp Size	AMPLE 3 color cosition color 10 mm	#7	olored 1mr	□ I □ N n to 10r rse Grai	Mafic nm ned	□ less □ Fine  Key Id Are the	☐ In Between In Imm  Grained  entifying Features	en	Glassy Texture  e king crystals?

What is the name of this igneous rock?

STA	TI	O	N	S	<b>1 1</b>	/P	L.F.	#8
$\mathcal{L}$	111	ι,	1.7/	17/	<b>-</b> NIV		1111	#()

	(	Color	□ Light C	olored	□ Dark Co	olored	□ In Betwe	en		
	Com	position	□ Felsic		□ Mafic		□ In Betwe	en		
Grain S	Size	□ 10 mm	or larger	□ 1mm to	10mm	□ less t	han 1mm	□ N	Ion-crystalline	
Textu	re	□ Very C	oarse	□ Coarse	Grained	□ Fine	Grained	□ G	lassy Texture	

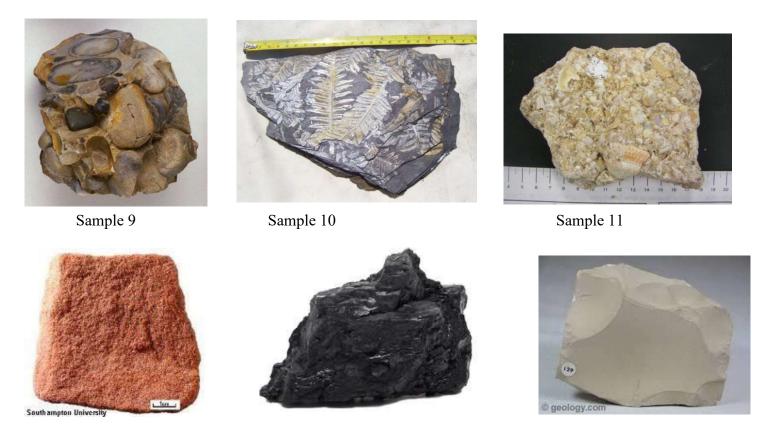


Yes	No	Key Identifying Feature
		Are there visible interlocking crystals?
		Vesicular (gas pockets)?

In complete sentences state why this rock would be classified as an igneous rock. Include whether it is intrusive or extrusive and explain why.

W	hat is the name of this igneous rock?
	ABORATORY QUESTIONS FOR PART 1 or 9A  Describe how the rate at which molten rock material cools effects the size of the crystals formed in an igneous rock.
2.	How can you tell if an igneous rock has had an <i>intrusive or extrusive</i> origin? Explain fully.
3.	List the mineral that make a light colored, low density, felsic rock:
4.	Describe the difference between lava and magma.

5.	What are the two environments of formation for igneous rocks (where do igneous rocks form, use your ESRT)?
6.	List all the minerals that can be found in basalt.
7.	Where are pumice and obsidian formed?
8.	What does a vesicular texture mean?
9.	Igneous rocks with a felsic composition contain which elements?
10.	Igneous rocks with a mafic composition contain which elements?
11.	Which of the following rocks has the highest content of iron: granite, obsidian, basalt, or pumice?



Sample 12 Sample 13 Sample 14

### SEDIMENTARY ROCKS

#### PART 2 or LAB 9B

Yes	No	<b>Key Identifying Feature</b>	Questions
		Clastic (pieces of rock)	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded
		Bioclastic	Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?
		Fossils	Can you see fossils in this sample?
		Crystalline	Can you see a crystalline structure in this sample?
In CO	MPL	ETE SENTENCES state wh	y this rock would be classified as a sedimentary rock.
What	is the	e name of this sedimentary	rock?

Yes	No	<b>Key Identifying Feature</b>	Questions
			If you checked yes, are the clasts angular or rounded?
		Clastic (pieces of rock)	□ Angular □ Rounded
		Bioclastic	Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?
		Fossils	Can you see fossils in this sample?
		Crystalline	Can you see a crystalline structure in this sample?
		e name of this sedimentary	rock?
		ICANIDITE HAA	
Yes		SAMPLE #11	
_	No	SAMPLE #11  Key Identifying Feature	Questions  If you checked you are the electrongular or rounded?
	No		Questions  If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded
		Key Identifying Feature	If you checked yes, are the clasts angular or rounded?
		Key Identifying Feature Clastic (pieces of rock)	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together?  Is it dark in color and made of compacted plant
		Key Identifying Feature  Clastic (pieces of rock)  Bioclastic	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together?  Is it dark in color and made of compacted plant remains?
		Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?

Yes	No	Voy Identifying Facture	Questions
res	110	Key Identifying Feature	
		Clastic (pieces of rock)	If you checked yes, are the clasts angular or rounded?
		Clastic (pieces of fock)	☐ Angular ☐ Rounded
			Can you see pieces of shells cemented together?
	Ιп	Bioclastic	Is it dark in color and made of compacted plant
		Biochastic	remains?
		Fossils	Can you see fossils in this sample?
		Crystalline	Can you see a crystalline structure in this sample?
In CO	MPL	ETE SENTENCES state wh	y this rock would be classified as a sedimentary rock.
m co	1711 L	212 SETTE TOES SINCE WII	j with four would be elaborited as a seatificinary fock.
What	is the	e name of this sedimentary	rock?
STAT	ΓΙΟΝ	/SAMPLE #13	
STAT	T <b>ION</b>	/ <u>SAMPLE #13</u>	
,			Questions
STAT Yes	No	/SAMPLE #13  Key Identifying Feature	Questions If you checked yes, are the clasts angular or rounded?
Yes	No	Key Identifying Feature	If you checked yes, are the clasts angular or rounded?
,			
Yes	No	Key Identifying Feature	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded
Yes	No	Key Identifying Feature  Clastic (pieces of rock)	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together?
Yes	No	Key Identifying Feature	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded
Yes	No	Key Identifying Feature  Clastic (pieces of rock)	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together?  Is it dark in color and made of compacted plant
Yes	No	Key Identifying Feature  Clastic (pieces of rock)	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together?  Is it dark in color and made of compacted plant
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together?  Is it dark in color and made of compacted plant remains?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?  Can you see a crystalline structure in this sample?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?  Can you see a crystalline structure in this sample?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?  Can you see a crystalline structure in this sample?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?  Can you see a crystalline structure in this sample?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?  Can you see a crystalline structure in this sample?
Yes	No	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?  Can you see a crystalline structure in this sample?
Yes  In CO	No  D  D  MPL	Key Identifying Feature  Clastic (pieces of rock)  Bioclastic  Fossils  Crystalline	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded  Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?  Can you see fossils in this sample?  Can you see a crystalline structure in this sample?  y this rock would be classified as a sedimentary rock.

Ye	es No	<b>Key Identifying Feature</b>	Questions	
		Clastic (pieces of rock)	If you checked yes, are the clasts angular or rounded?  □ Angular □ Rounded	
		Bioclastic	Can you see pieces of shells cemented together? Is it dark in color and made of compacted plant remains?	
		Fossils	Can you see fossils in this sample?	
	1 🗆	Crystalline	Can you see a crystalline structure in this sample?	
Wh	at is t	ne name of this sedimentary	rock?	
		TORY QUESTIONS FOR In a picture (an actual oval shape	PART 2 or LAB 9B  e) of a pebble of maximum size.	
2.	What a	are the maximum and minimu	m dimensions (size range) for the following particles:	
	a.	sand:		
	b.	pebble:		
	c.	cobble:		
	3. Explain how a clastic sedimentary rock such as sandstone formed differently than a chemically formed sedimentary rock such as gypsum.			

4.	How would the particles that make up a conglomerate differ from the particles in a sandstone or shale?
5.	Sandstone is made of what mineral(s)?
6.	In what way is the overall appearance of a breccia different from that of conglomerate?
7.	What chemical test could be used to identify limestone? Explain.



### METAMORPHIC ROCKS

### PART 3 or LAB 9C

Yes	No	Key Identifying Feature	Questions	
		Foliated	Do you notice any mineral alignment and/or banding  If you checked yes and it is banded: If yes then it's gno	
		Microscopic Mica Crystals	Does the rock appear <i>slightly</i> shiny with slight miner alignment? <i>If yes then it's phylitte</i>	al
		Platy Mica Crystals	Do you notice larger shiny mica crystals with some mineral alignment? If yes then it's schist	
	☐ Nonfoliated If you checked no for all of the above, then your rock nonfoliated. Please use the ESRT comments and roc map symbols to help identify			
	What was the parent rock? The type of rock it was before it was changed due to heat and pressure? Use ESRT!			

	What is the name of this metamorphic rock?	
COMPLETE SENTENCES state why this rock would be classified as a metamorphic rock.	COMPLETE SENTENCES state why this re	ock would be classified as a metamorphic rock.

	<b>N</b> T	TZ TI ('C' T)			
Yes	No	Key Identifying Feature Questions  Do you notice any mineral alignment and/or banding?			
		Foliated	If you checked yes and it is banded: If yes then it's gneiss		
		Microscopic Mica Crystals	Does the rock appear <i>slightly</i> shiny with slight mineral alignment? If yes then it's phylitte		
		Platy Mica Crystals	mineral alignment: If yes then it s schist		
		☐ Nonfoliated If you checked no for all of the above, then your rock is nonfoliated. Please use the ESRT comments and rock map symbols to help identify			
		t was the parent rock? The tand pressure? Use ESRT!	ype of rock it was before it was changed due to		
In CC	)MPL	ETE SENTENCES state why	y this rock would be classified as a metamorphic rock.		
		e name of this metamorphi /SAMPLE #17	c rock?		
Yes	No	Key Identifying Feature	Questions		
		- 1, 11 1 J g 11111	•		
		Foliated	Do you notice any mineral alignment and/or banding?  If you checked yes and it is banded: If yes then it's gneiss		
		Foliated  Microscopic Mica Crystals	If you checked yes and it is banded: If yes then it's gneiss  Does the rock appear slightly shiny with slight mineral alignment? If yes then it's phylitte		
			If you checked yes and it is banded: If yes then it's gneiss  Does the rock appear slightly shiny with slight mineral		
		Microscopic Mica Crystals	If you checked yes and it is banded: If yes then it's gneiss  Does the rock appear slightly shiny with slight mineral alignment? If yes then it's phylitte  Do you notice larger shiny mica crystals with some		
	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Microscopic Mica Crystals  Platy Mica Crystals  Nonfoliated	If you checked yes and it is banded: If yes then it's gneiss  Does the rock appear slightly shiny with slight mineral alignment? If yes then it's phylitte  Do you notice larger shiny mica crystals with some mineral alignment? If yes then it's schist  If you checked no for all of the above, then your rock is nonfoliated. Please use the ESRT comments and rock		
	□ □ Wha heat	Microscopic Mica Crystals  Platy Mica Crystals  Nonfoliated  t was the parent rock? The tand pressure? Use ESRT!	If you checked yes and it is banded: If yes then it's gneiss  Does the rock appear slightly shiny with slight mineral alignment? If yes then it's phylitte  Do you notice larger shiny mica crystals with some mineral alignment? If yes then it's schist  If you checked no for all of the above, then your rock is nonfoliated. Please use the ESRT comments and rock map symbols to help identify		
	□ □ Wha heat	Microscopic Mica Crystals  Platy Mica Crystals  Nonfoliated  t was the parent rock? The tand pressure? Use ESRT!	If you checked yes and it is banded: If yes then it's gneiss  Does the rock appear slightly shiny with slight mineral alignment? If yes then it's phylitte  Do you notice larger shiny mica crystals with some mineral alignment? If yes then it's schist  If you checked no for all of the above, then your rock is nonfoliated. Please use the ESRT comments and rock map symbols to help identify  ype of rock it was before it was changed due to		

Yes	No	Key Identifying Feature	• •		
		Foliated	Do you notice any mineral alignment and/or banding?		
			If you checked yes and it is banded: If yes then it's gneiss		
		Microscopic Mica Crystals	Does the rock appear slightly shiny with slight mineral alignment? If yes then it's phylitte  Do you notice larger shiny mice crystals with some		
		Platy Mica Crystals	Do you notice larger shiny mica crystals with some mineral alignment? If yes then it's schist		
		Nonfoliated	If you checked no for all of the above, then your rock is nonfoliated. Please use the ESRT comments and rock map symbols to help identify		
		t was the parent rock? The ty and pressure? Use ESRT!	ype of rock it was before it was changed due to		
In CC	OMPL.	ETE SENTENCES state why	y this rock would be classified as a metamorphic rock.		
What	t is the	e name of this metamorphic	c rock?		
STA	ΓΙΟΝ	/SAMPLE #19			
Yes	No	Key Identifying Feature	Questions		
		Foliated	Do you notice any mineral alignment and/or banding?  If you checked yes and it is banded: If yes then it's gneiss		
		Microscopic Mica Crystals	Does the rock annear slightly shiny with slight mineral		
		Platy Mica Crystals	Do you notice larger shiny mica crystals with some mineral alignment? If yes then it's schist		
		Nonfoliated If you checked no for all of the above, then your rock is nonfoliated. Please use the ESRT comments and rock map symbols to help identify			
	What was the parent rock? The type of rock it was before it was changed due to heat and pressure? Use ESRT!				
In CC	) OMPL	ETE SENTENCES state why	y this rock would be classified as a metamorphic rock.		

	Yes	No	Key Identifying Feature	Questions
			Foliated	Do you notice any mineral alignment and/or banding?
			Microscopic Mica Crystals	If you checked yes and it is banded: If yes then it's gneiss  Does the rock appear slightly shiny with slight mineral alignment? If yes then it's phylitte
			Platy Mica Crystals	Do you notice larger shiny mica crystals with some mineral alignment? If yes then it's schist
			Nonfoliated	If you checked no for all of the above, then your rock is nonfoliated. Please use the ESRT comments and rock map symbols to help identify
at was	s the 1	paren	t rock? The type of rock it w	vas before it was changed due to heat and pressure? Use ESI
_			e name of this metamorphi	y this rock would be classified as a metamorphic rock.
'	wnat	is the	e name of this metamorphi	c rock:
<u>I</u>	LAB(	ORA'	TORY QUESTIONS FOR	PART 3 or 9C
<ol> <li>What happens to the grain size in a rock as it goes from low to high grade metamorph</li> <li>How could hydrochloric acid be used to tell quartzite from marble?</li> </ol>			rock as it goes from low to high grade metamorphism?	
			ed to tell quartzite from marble?	
3. Why are fossils not usually found in metamorphic rocks?		metamorphic rocks?		
4	4. Explain how foliation occurs in metamorphic rocks.			amorphic rocks.
5	5. On what basis can metamorphic rocks be identified?			
<ul><li>6. Gneiss can form into granite. How is gneiss different in appearance from granite?</li><li>7. What sedimentary rock does slate most closely resemble?</li></ul>		is gneiss different in appearance from granite?		
		edimentary rock does slate m	nost closely resemble?	