

Measurement

How are rocks classified?

Pg. 116 - Chapter 4 Name _____

Rock Identification LAB

Question 1: For each rock sample you tested how did you decide which testing lab to use?

Answer 1:

Rock Names

Question 2: What observations did you make about your rock samples?

Answer 2:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.

Question 3: How did you identify your rock samples?

Answer 3:

Question 4: When you find a rock on your own what steps can you take to identify it?

Answer 4:

Sedimentary Rocks			
Name	sandstone	Name	shale
Sediment Size	1/16 - 2 mm	Sediment Size	<1/16 mm
Reacts with HCl?	no	Reacts with HCl?	no
Sediment Type	sand	Sediment Type	mud
Name	limestone	Name	conglomerate
Sediment Size	varied	Sediment Size	>2 mm
Reacts with HCl?	yes	Reacts with HCl?	no
Sediment Type	fossils	Sediment Type	gravel
Name	rock salt		
Sediment Size	microscopic		
Reacts with HCl?	no		
Sediment Type	salt		

Measurement

Rock Characteristics

Igneous Rocks			
Name	granite	Name	scoria
Glassy Appearance	no	Glassy Appearance	yes
Holes?	no	Holes?	yes
Color	light	Color	dark
Crystal Size	large	Crystal Size	none
Name	pumica	Name	basalt
Glassy Appearance	yes	Glassy Appearance	no
Holes?	yes	Holes?	no
Color	light	Color	dark
Crystal Size	none	Crystal Size	small
Name	obsidian		
Glassy Appearance	yes		
Holes?	no		
Color	dark with light edges		
Crystal Size	none		
Metamorphic Rocks			
Name	gneiss	Name	mica schist
Recrystallization	no	Recrystallization	yes
Scratch Glass?	yes	Scratch Glass?	no
Banding?	yes	Banding?	yes
General Appearance	light and dark bands	General Appearance	platy
Name	quartzite	Name	marble
Recrystallization	yes	Recrystallization	yes
Scratch Glass?	no	Scratch Glass?	no
Banding?	no	Banding?	no
General Appearance	crystal mass	General Appearance	crystal mass
Name	slate		
Recrystallization	no		
Scratch Glass?	no		
Banding?	yes		
General Appearance	flat, smooth surface		