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GeoMeo: Physical Properties of Minerals

I. Luster

The terms *metallic* and *nonmetallic* broadly describe the basic types of luster, or the appearance of light reflected from a mineral. If the mineral appears to be made of metal or light reflected off gives an appearance of metal. If the mineral appears to be made of glass, wax or plastic it is considered to have a nonmetallic luster.

For each of the minerals I	isted below	determine	whether the	luster is
metallic or nonmetallic.				

1. Galena
2. Biotite
3. Graphite
4. Hematite
5. Olivine
6. Halite
7. Pyrite
8. Quartz
9. Limonite
10. Magnetite

II. Streak

Streak is the color given when a mineral is rubbed on an unglazed porcelain plate called a streak plate. The streak of a mineral may be different from the color of the mineral. At times, you may think that a mineral is producing a white streak. Carefully inspect the streak plate. Is the mineral producing a white streak or is the mineral scratching the streak plate? The white powder may be coming from the porcelain plate. The streak of a mineral which can scratch a streak plate is said to be "none".

For each of the minerals listed below determine the color of the streak.

1.	Graphite	
2.	Chalcopyrite	
3.	Limonite	

4. Galena	-
5. Magnetite	
6. Hematite	
7. Pyrite	
8. Sphalerite	_
9. Clear Quartz	_
10. Talc	<u> </u>
III. Color Color is one of the most obvious propertion of a mineral. Some minerals are found in things as variations in compositions and	n various hues, depending upon such inclusions of impurities.
For each of the minerals listed below	determine the color.
The mineral quartz may display a variety variations in crystals of the same mineral	
1. Colorless Quartz	
2. Milky Quartz	<u> </u>
3. Rose Quartz	
Biotite and muscovite are very similar wit	h color being their main difference.
4. Biotite	<u> </u>
5. Muscovite	
The mineral sulfur displays a bright yellow the mineral may cause sulfur to appear in	
6. Is the sample of sulfur provided pure?	How do you know?
Pyrite is composed of iron and sulfur. Chand sulfur. Examine the color of pyrite an	
7. Pyrite	
8. Chalcopyrite	