Mineral and Rock Identification Homework

Objectives =

The goal of this homework is twofold: 1. Learn the physical properties used to identify minerals and rocks, then 2) Apply your knowledge by identifying your hand samples.

Part 1 -

Use the mineral identification tables to answer the following questions (Following pages). The answers to the questions are in the tables... (10 points)

Part 2 -

Use the Identification tables to identify your samples

A. First separate your samples into two groups, minerals (homogenous) and rocks (heterogeneous). Place your samples on a piece of paper labeled piece of paper, then take a picture to submit. (10 points)

B. Create septate pieces of paper – next to each sample write the properties you used to identify the sample, then write the samples name... I should be able to get four to six sample per page. Take a picture of each page to submit. Make sure you try to identify each of your samples. (20 points)

MINERAL IDENTIFICATION TABLE QUESTIONS

Part I. Identification.

Using the tables, identify the minerals which possess the following characteristics.		
1. Nonmetallic, dark green mineral with 2 directions of cleavage at about 60° and 120°.		
Name		
2. Metallic or nonmetallic mineral with a distinctive reddish brown streak.		
Name		
3. Metallic mineral with a high density (7.6) and perfect cubic cleavage.		
Name		
4. Nonmetallic mineral which when powdered effervesces in HCl.		
Name		
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5. Nonmetallic mineral with 2 good directions of cleavage at 90°, but does not have		
any striations on any cleavage faces. Name		
Name		
6. Metallic mineral which is strongly magnetic.		
Name		
7. Dark or light colored mineral which displays 24-sided crystals with a hardness of 7.5.		
Name		
8. Olive green mineral which commonly occurs in aggregates of small round glassy		
Grains.		
Name		
9. Brassy yellow mineral which displays cubic crystals with striated faces.		
Name		

10	. Dark colored mineral which can be cleaved into thin elastic sheets.	
Name		
Using the tables, answer the questions about mineral properties.		
1.	What is the hardness of corundum?	
2.	What type of breakage does halite possess?	
3.	What is the streak of sphalerite?	
4 .	What is the color of sulfur?	
5.	What is luster of hematite?	
6.	What is the breakage of fluorite?	
7.	What is the hardness of quartz?	
8.	What is the color of chalcopyrite?	

9.	What is the breakage of pyroxene?
10.	What is the special characteristic of calcite?