

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## ***Graded Assignment Lab Report 3.07***

***Submit by November 2 for full credit.***

**Lab 3.07 is a Virtual Lab! Don't worry, you are not required to go out and buy all those minerals and lab equipment!**



**In this VIRTUAL LAB, you will be testing various minerals to determine their unique characteristics, and then using the data you collected to discover the identity of an unknown mineral. Use the virtual lab link located in the Lesson Resources and the directions in the Student Guide to complete this lab!**

**Follow these steps to get started:**

**Step 1:** Download the [Student Guide](#).

**Step 2:** Go to Lesson 3.07 and read the pages of the Lesson!

**Step 3:** Find the Rocks and Minerals Virtual Lab link in the Lesson Resources in Lesson 3.07.

**Step 4:** Complete the Table (page 2) using the Virtual Lab.

**Step 5:** Answer the rest of the questions in the lab fully (**in complete sentences**). Be sure to answer all parts of the questions.

**Step 6:** Turn the lab into the Dropbox by November 2 for full points. (Click the link for [Instructions to use Dropbox](#))  
Any work submitted after the midnight deadline will be counted for up to 70% of the points possible (30% off).

**Note:** If you get confused, please send your teacher a kmail asking for help – make sure to ask a *specific question* in your kmail so I can help you best!

**This activity is a VIRTUAL LAB! That means you do **not** need to go gather the materials and conduct the lab at home. Just use the virtual lab (from Lesson Resources) to answer the questions!!**

**(6 points)**

1. Complete the following Data Table as you conduct the lab. Remember, this is a VIRTUAL LAB! Please find the **Rocks and Minerals Virtual Lab** Activity in the Lesson Resources.

Score

**Confused?** Use the instructions on pages 2&3 of the [STUDENT GUIDE](#) to determine how to test for color, streak, luster, etc.

Answer:

**Data Table: Mineral Identification**

Characteristics	Calcite	Mica	Quartz	Sulfur	Magnetite	Pyrite	Unknown
Color							
Streak							
Luster							
Hardness							
Cleavage							
Magnetic							
Acid Reaction							

**(3 points)**

2. What is the unknown?

Score

**HINT:** The unknown is one of the minerals that you tested above – Calcite, Mica, Quartz, Sulfur, Magnetite, or Pyrite. Using the process of elimination, determine which of the known minerals the unknown mineral is most likely. Choose the mineral that has the most characteristics in common.

Answer:

**(3 points)**

3. Why was it important to examine both the color and the streak of your minerals?

Score

Answer:

**(3 points)**

4. Is luster a good characteristic to use for the identification of minerals? Why or why not?

Answer:

Score

**(3 points)**

5. You have been given a sample of quartz, which has a hardness of 7. How can you use this mineral to determine the hardness of other minerals? Describe the steps you would take in detail.

Answer:

Score

**(3 points)**

6. Which property or properties did you find most useful in the identification of the mineral samples? Which properties were less useful? Be specific in your explanation and answer all parts of the question fully.

Answer:

Score

<b>Your Score</b>	___ of 21
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