

Mineral Data Table

Part 1

Drawing/Observations

Questions for Part 1 *(Answer on a separate sheet of paper.)*

1. Compare and contrast the crystals formed in this activity with minerals.
2. Compare your results to your classmates. How are the results similar? How are they different?
3. List at least three possible factors that may affect the formation and growth of mineral crystals in this activity.

Part 2

	Mineral Sample # ____	Mineral Sample # ____
Weight in Air (g)		
Weight in Water (g)		
Loss of Weight in Water (g)		
Specific Gravity		

Questions for Part 2 *(Answer on a separate sheet of paper.)*

1. Which of your two minerals had the highest specific gravity?
2. In general, most metallic minerals have a specific gravity greater than 5.0 and non-metallic minerals have a specific gravity around 3.0. Given your specific gravity results, are your samples considered metallic or non-metallic?
3. What possible errors may occur in this activity?

Parts 3, 4, 5, 6 and 7

Mineral Sample #	Specific Gravity	Color	Luster	Light Interaction	Streak	Hardness	Cleavage
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

Questions for Part 3 (*Answer on a separate sheet of paper.*)

1. Compare the results obtained for samples 10, 11, and 12. These samples are the same mineral. What similarities or differences are observed?
2. Compare the color and luster of samples 3, 6, and 11. Explain why color is not the best way to classify minerals.
3. Select three minerals that have unique colors that would be helpful in the identification process. List the mineral samples and explain why the color would be helpful in identification.

Questions for Part 4 (*Answer on a separate sheet of paper.*)

1. Which minerals could possibly be used for the panes of windows?
2. Which minerals could be used in situations where the blockage of light is needed?

Questions for Part 5 (*Answer on a separate sheet of paper.*)

1. Describe what a mineral streak is.
2. List examples of factors that could affect the color of a mineral's streak.
3. Were all of the streaks the same color as the minerals? If not, which ones were different?

Questions for Part 6 (*Answer on a separate sheet of paper.*)

1. Define mineral hardness.
2. List the mineral samples tested above in order from softest to hardest.
3. What is the hardest known mineral on Earth?

Questions for Part 7 (*Answer on a separate sheet of paper.*)

1. Define cleavage.
2. Given your observations, which mineral samples could be easily divided into smaller pieces with the same or similar shapes or characteristics?

Part 8

Mineral Sample #	Name
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	