A PHYSICAL CHALLENGE

Name: _____ **Date:** _____ **Period:** _____

Background

Metals: _____ **Non-Metals:** _____ **Metalloids:** _____

_____ _____ _____

_____ _____ _____

Sample	Color	Luster (Shiny or Not)	Brittle or Malleable	Conductivity (Yes or No)	Mass ( )	Volume ( )	Denisty ( )	Circle "M, NM, Mett"	Name of Sample
A								Metal Non-Metal Mettalloids	
B								Metal Non-Metal Mettalloids	
C								Metal Non-Metal Mettalloids	
D								Metal Non-Metal Mettalloids	
E								Metal Non-Metal Mettalloids	
F								Metal Non-Metal Mettalloids	
G								Metal Non-Metal Mettalloids	

CONLCLUSION QUESTIONS

1. Which lettered samples of elements are metals? Which were nonmetals?

2. Could any of the elements you tested be called metalloids? Which ones? Why did you classify them in this manner?

3. Is there any generalization (basic ways of grouping) you can make about the densities of metals vs. nonmetals?

4. Are the other properties you did not report on or test in this activity that might distinguish a metal from a nonmetals?

5. Are there any properties that you observed that might give you a clue why nonmetals are poor conductors of electricity?