A PHYSICAL CHALLENGE **Name:** _____ **Date:**_____ **Period:**_____

Background Knowledge: Review and record the physical properties and descriptions for Metals, Non-Metals and Metalloids.

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
Ex								Metal Non-Metal Mettalloids	
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	

CONLCLUSION QUESTIONS

Which lettered samples of elements are metals? Metalloids? Nonmetals? Give the sample letter and the identity.

Metals (1)	**Metalloids (2)**	**Non-Metals (3)**
4. Explain why you grouped each sample the way you did using their physical properties.		

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

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

7. What made it difficult to identifying some of the samples as being metals, metalloids or nonmetals? Explain/elaborate.