

**Data Tab**

Element	A	B	C	D	E	F
Color						
Luster						
Form						
Conductivity						
Malleability						
Reactivity with HCl						
Reactivity with CuCl <sub>2</sub>						

**Categorizing:**

Your data should show two distinct groups and one element that doesn't fit either group). Which element, each group and which properties do they have in common.

Category	Elements	Common Properties
Category 1		
Category 2		

Which element is the outlier? \_\_\_\_\_  
 Why do you think so? \_\_\_\_\_

**Chemistry Resource Information:**

- Metals are lustrous, crystalline, and malleable
- Many metals react with HCl and many metals also react with CuCl<sub>2</sub>
- Non-metals are usually dull in appearance and are brittle
- Non-metals are amorphous and usually unreactive to HCl and CuCl<sub>2</sub>.
- Metals can conduct electricity and non-metals cannot
- Semi-metals have some properties of metals and nonmetals

*Now, label each category above as metal or non-metal or semi-metal. What do you think the outlier is? Why?*

