

Names: \_\_\_\_\_ Block: \_\_\_\_\_

## Physical Properties of the Elements

**Purpose:** To observe and research the physical properties of 16 pure elements. (*sym = symbol; S, L, G = solid, liquid, or gas; Col = color; L, NL = luster or non-luster; D, ND = ductile, nonductile; C, NC = conductive, nonconductive; M, NM = magnetic, nonmagnetic*). Note, for the last two elements (*Chlorine and Mercury*), you are required to research these; we do not possess these due to safety concerns.

Name	Sym	S, L, G	Col	L, NL	D, ND	C, NC	M, NM	metal	Compounds, name, formula and use
<b>Cobalt</b>									
<b>Aluminum</b>									
<b>Zinc</b>									
<b>Vanadium</b>									
<b>Sulfur</b>									
<b>Molybdenum</b>									
<b>Manganese</b>									
<b>Magnesium</b>									
<b>Nickel</b>									
<b>Copper</b>									
<b>Lead</b>									
<b>Tin</b>									
<b>Silicon</b>									
<b>Carbon</b>									
<b>Iodine</b>									
<b>Chlorine</b>									
<b>Mercury</b>									

For the last column, please use any resource available, use of the encyclopedias is encouraged as well. I will give a 1 point bonus for those who can find out why I am particularly fond of Nickel and Sulfur (perhaps I have studied or used these two elements in past research). Be specific, with a reference/citation. Your lab must be typed upon submission with references included ('Wikipedia' or 'Google' references would not be considered complete). Did your original observations match the literature? Please remember to write down how you performed the tests above. Color pics are nice, but not required.