AE9.3

Demonstrate an understanding of the classification of pure substances (elements and compounds), including the development and nature of the Periodic Table.

Using a Periodic Table, complete the following chart. Then, determine if the element is an atom or an ion.

Element Name and Symbol	Atomic Number	Number of Protons Present	Number of Electrons Present	Charge (+,-,0)	Atom or Ion
Silver Ag	47	47	47	0	atom
Gold Au	79	79	77	+2	ion
Aluminum Al	13	13	16	-3	ion
Platinum Pt			77	+1	
Copper Cu	29		27		
Iron Fe			30		
Lead Pb	82			0	
Tin Sn	50				atom
Chlorine Cl	17	17		-1	
Silicon Si	14		16		