1. Complete the chart using your knowledge of atoms.

Element	Atomic Symbol	Total # of	# of Valence	# of Electrons	Oxidation #
		Electrons	Electrons	Gained or Lost	
Iodine					
Lithium					
Magnesium					
Oxygen					
Hydrogen					
Sulfur					
Potassium					
Phosphorus					
Fluorine					

2.	Vocab	Review	
	a.	What do we call the electrons in the outermost energy level?	
	Ъ.	What term refers to an atom that has lost or gained electrons?	
	c.	What is a cation?	
	d.	What is an anion?	
	e.	When elements are joined together (bonded) they form a	
3.	Conce	pt Review	
	a.	An atom that gains one or more electrons will have a	charge.
	b.	An atom that loses one or more electrons will have a	charge.
	c.	An ionic bond forms between aion	n with a positive charge and a
		ion with a negative charge.	
	d.	A covalent bond forms between two	_·
	e.	An atom is chemically stable when its outer energy level is "full"	with electrons.
	f.	What is the oxidation number for the Noble Gas elements?	

4.	Ionic Bonding: Draw the Lewis structures for each of the following. Use colored pencils (markers, etc.).					
	a) Potassium Iodide, KI	b) Magnesium Oxide, MgO	c) Lithium Nitride, Li ₃ N			
	d) Magnesium Iodide, MgI ₂	e) Potassium Sulfide, K ₂ S	f) Lithium Iodide, LiI			
5.	Covalent Bonding: Draw the Lewis structures for each of the following. Use colored pencils (markers, etc.).					
	a) Fluorine (diatomic), F ₂	b) Hydrogen Phosphide, H ₃ P	c) Hydrogen Sulfide, H ₂ S			
	d) Methane, CH ₄	e) Hydrogen Chloride, HCl	f) Hydrogen (diatomic), H ₂			