

Ch 13 Study Guide (Chemical Bonds)

1. Fill in the table below with the correct values:

Element Name	Ion Symbol	# Protons	# Electrons	Charge	Ion Type
Fluorine	F^-	9	10	-1	Anion
Iodine	I^-	53	54	-1	Anion
Sulfur	S^{2-}	16	18	-2	Anion
Potassium	K^+	19	18	+1	Cation
Calcium	Ca^{2+}	20	18	+2	Cation
Bromine	Br^-	35	36	-1	Anion
Strontium	Sr^{2+}	38	36	+2	Cation
Oxygen	O^{2-}	8	10	-2	Anion
Magnesium	Mg^{2+}	12	10	+2	Cation
Aluminum	Al^{3+}	13	10	+3	Cation
Selenium	Se^{2-}	34	36	-2	Anion
Lithium	Li^+	3	2	+1	Cation
Rubidium	Rb^+	37	36	+1	Cation
Chlorine	Cl^-	17	18	-1	Anion

2. An ionic bond is formed between what two types of atoms?

Metal & nonmetal

3. A covalent bond is formed between what two types of atoms?

Nonmetal & Nonmetal

4. Draw the bond(s) that will form between Mg and O.



5. What is the formula for the compound formed in question #4?



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Didier Musso



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