Homework #6

Due March 2nd 2010

Name: _____

Student ID: _____

Chem 192 – Spring 2010
Cañada College

Total Possible Points: 10

Suggested: suggested problems are not required to be turned in but are recommended to help you prepare for the exam. The answer to each problem is in the back of your textbook.

Suggested chapter 6 review questions: 3, 5, 7.
Suggested chapter 6 paired exercises: 2, 4, 6, 8, 12, 14, 16, 18, 20, 22, 24 & 28.
Note: #26 is a kind of trick question: ask yourself why it's a trick question!

1..(two points) For each element listed below, write the symbol of the ion most likely to be formed from that element.

(a) Oxygen _____

(b) Boron _____

(c) Iron _____
(there are two—show both)

(d) Magnesium _____

(e) Nitrogen _____

(f) Cesium _____

(g) Copper _____
(there are two—show both)

(h) Sulfur _____

2..(three points) Complete the table below, write the formula in each box to show what compound would be formed with each anion listed across the top paired with each cation listed along the side.

	Br^-	NO_3^-	PO_4^{3-}
K^+			
Al^{3+}			
Zn^{2+}			
H^+			

3..(three points). Translate the following sentences into chemical equations:

(a) Silver nitrate and potassium chloride yield potassium nitrate and silver chloride.

(b) Zinc chromate and lead (II) nitrate yield zinc nitrate and lead (II) chromate.

(c) Cuprous nitrate and sodium hydroxide yield cuprous hydroxide and sodium nitrate.

4..(two points). Translate the following chemical equations into sentences:

example: $CaCl_2 \rightarrow Ca + Cl_2$

Calcium chloride yields calcium and chlorine.

(a) $C + O_2 \rightarrow CO_2$

(b) $Mg + Cu(NO_3)_2 \rightarrow Cu + Mg(NO_3)_2$