**8. Know Your Ions homework problems**

Name and date submitted (3 pts):

Instructions: Using this form as a template, create space in the document below and write or type your answers. Turn in your completed work as an email attachment.

(5 questions, 100 points possible).

1. Give the correct name and oxidation number for these POLYATOMIC IONS:
   1. SO4 example: sulfate, -2
   2. SO3
   3. NO3
   4. NO2
   5. PO4
   6. PO3
   7. OH
   8. CO3
   9. HCO3
   10. CrO4
   11. Cr2O7
   12. C2H3O2
2. Give the correct formulas for these IONIC compounds:
   1. Sodium chloride example: NaCl
   2. Calcium chloride
   3. Magnesium chloride
   4. Hydrogen chloride
   5. Sodium oxide
   6. Calcium oxide
   7. Magnesium oxide
   8. Potassium bromide
   9. Lithium bromide
   10. Calcium bromide
3. Give the correct formulas for these POLYATOMIC IONIC compounds:
   1. Sodium sulfate example: Na2SO4
   2. Potassium sulfate
   3. Calcium sulfate
   4. Sodium nitrate
   5. Calcium nitrate
   6. Potassium nitrate
   7. Sodium phosphate
   8. Calcium phosphate
   9. Magnesium hydroxide
   10. Lithium hydroxide
   11. Calcium hydroxide
   12. Sodium bicarbonate
   13. Calcium bicarbonate
4. Correctly name these metallic IONIC compounds:
   1. Al(OH)3 example: aluminum hydroxide
   2. Al2(SO4)3
   3. Zn(OH)2
   4. ZnCl2
   5. Zn3(PO4)2
   6. AgNO3
   7. NH4NO3
   8. NH4OH
5. Assign oxidation numbers to each ATOM:
   1. NaCl example: Na +1, Cl -1
   2. HCl
   3. CaCl2
   4. CaO
   5. MgO
   6. MgCl2
   7. CuCl
   8. CuCl2
   9. H2O