

**Ionic Naming Worksheet****Honors Chemistry**

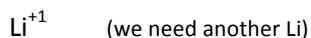
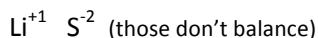
Name \_\_\_\_\_

**Basic binary ionic compounds**

1. Write the names of these compounds...



2. Write the formulas for these compounds...write each ion and its charge to show that the charges balance out...

**Ionic compounds with multivalent compounds (remember that these need Roman numerals in the names)**

3. Write the names of these compounds...



4. Write the formulas of these compounds...write each ion and its charge to show that the charges balance...(like #2)

**Ionic compounds with polyatomic ions**

5. Write the names of these compounds...



6. Write the formulas of these compounds...write each ion and its charge to show that the charges balance...(like #2)



Ionic compounds of any type...all mixed up...

7. Name these compounds...

a)  $\text{PbCl}_4$       Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

b)  $\text{RaF}_2$       Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

c)  $\text{Co}(\text{ClO}_3)_2$       Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

d)  $(\text{NH}_4)_3\text{P}$       Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

e)  $\text{ZnS}$       Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

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8. Write the formulas for these compounds...write each ion and its charges to show that the charges balance out...

a) nickel (II) hydroxide      Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

b) sodium phosphate      Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

c) potassium phosphide      Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

d) aluminum bromide      Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_

e) magnesium bicarbonate      Does it have a multivalent metal? \_\_\_\_\_      Does it have a polyatomic ion? \_\_\_\_\_