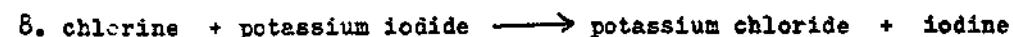
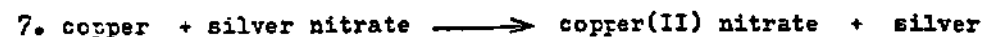
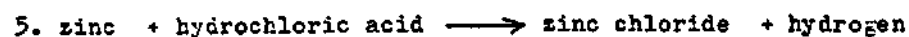
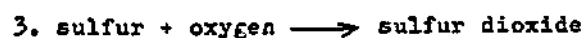
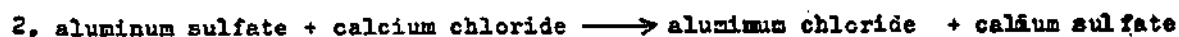
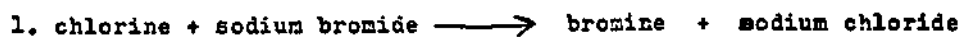
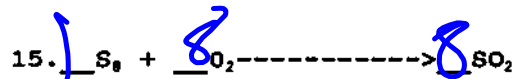
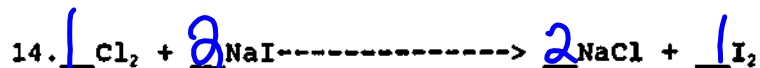
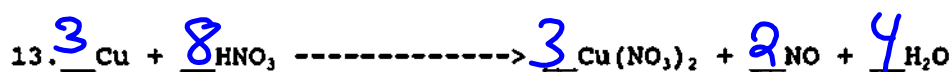
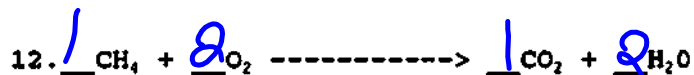
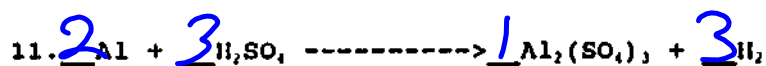
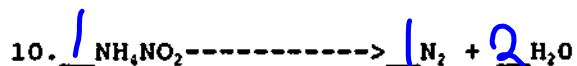
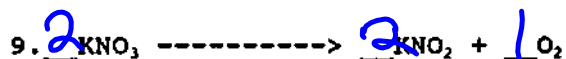
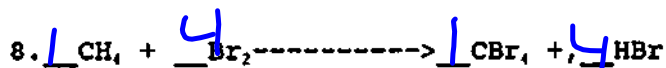
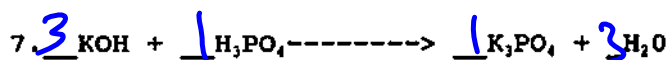
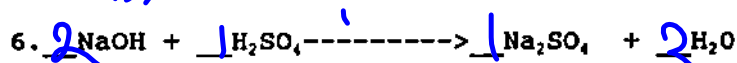
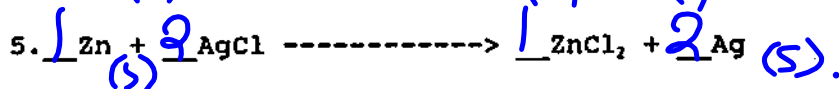
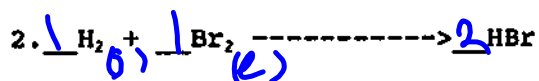
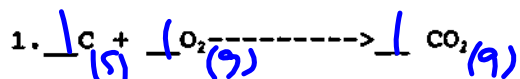


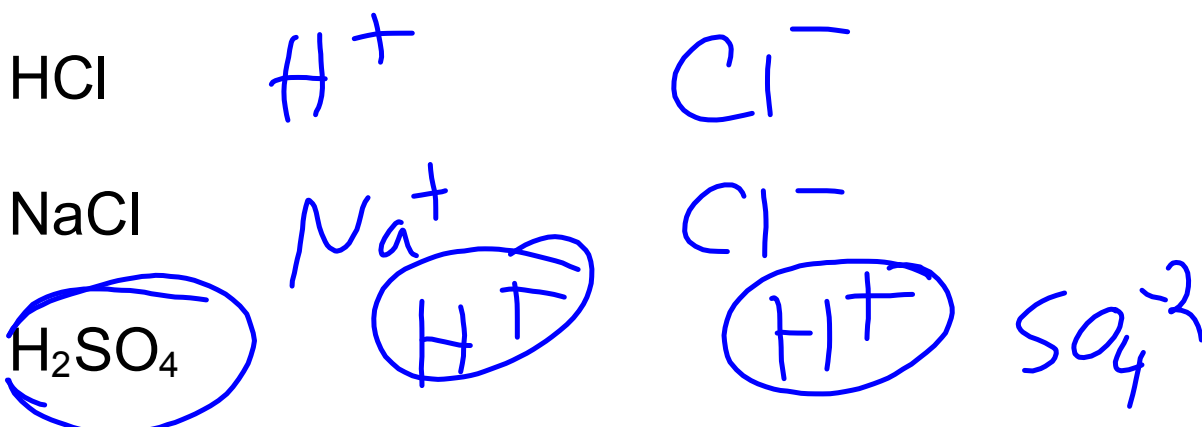
Chemistry

Name _____
PracticeBalancing Equations

Balancing equations:



Some substances in water form ions:



To write an ionic equation:

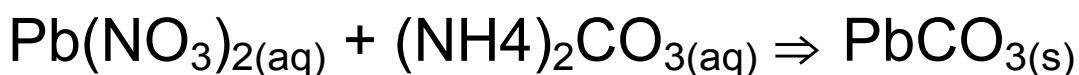
1. Write out the correct formulas of the ions present
2. Write a balanced molecular equation
3. Replace the formulas with ions
4. Eliminate the spectator ions

Ionic Equations:

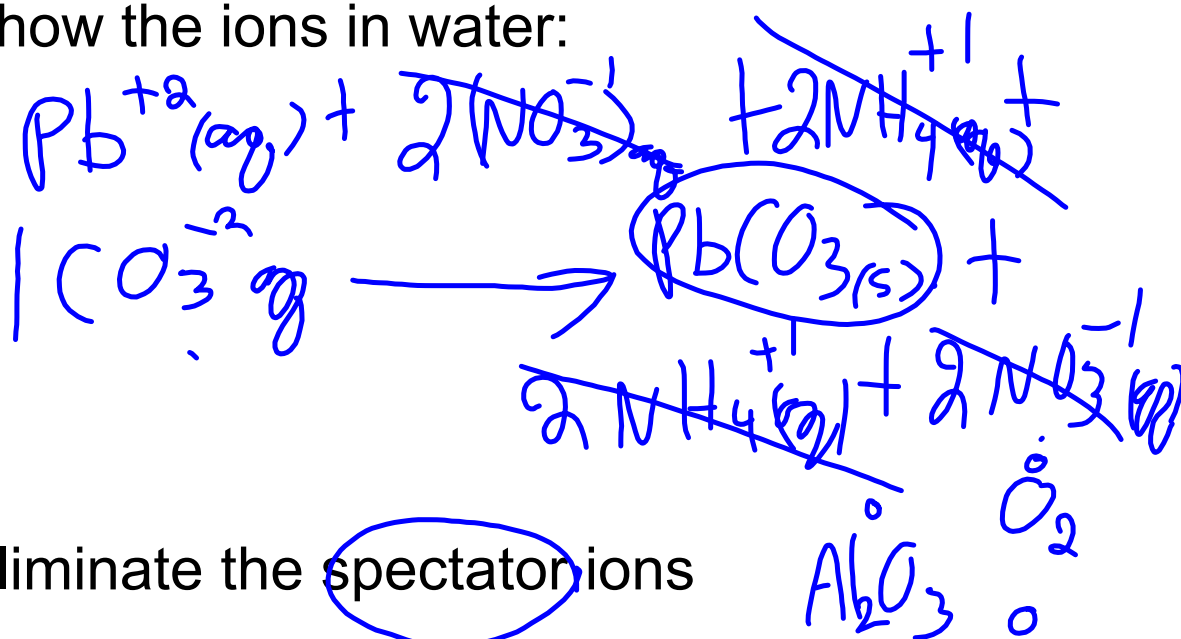
Many ionic equations only react if dissolved in water

e.g. lead nitrate + ammonium carbonate $\Rightarrow$
lead carbonate + ammonium nitrate

1. Write out the equation with the phases:

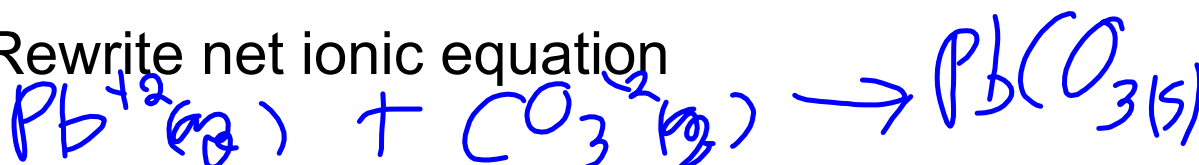


2. Show the ions in water:



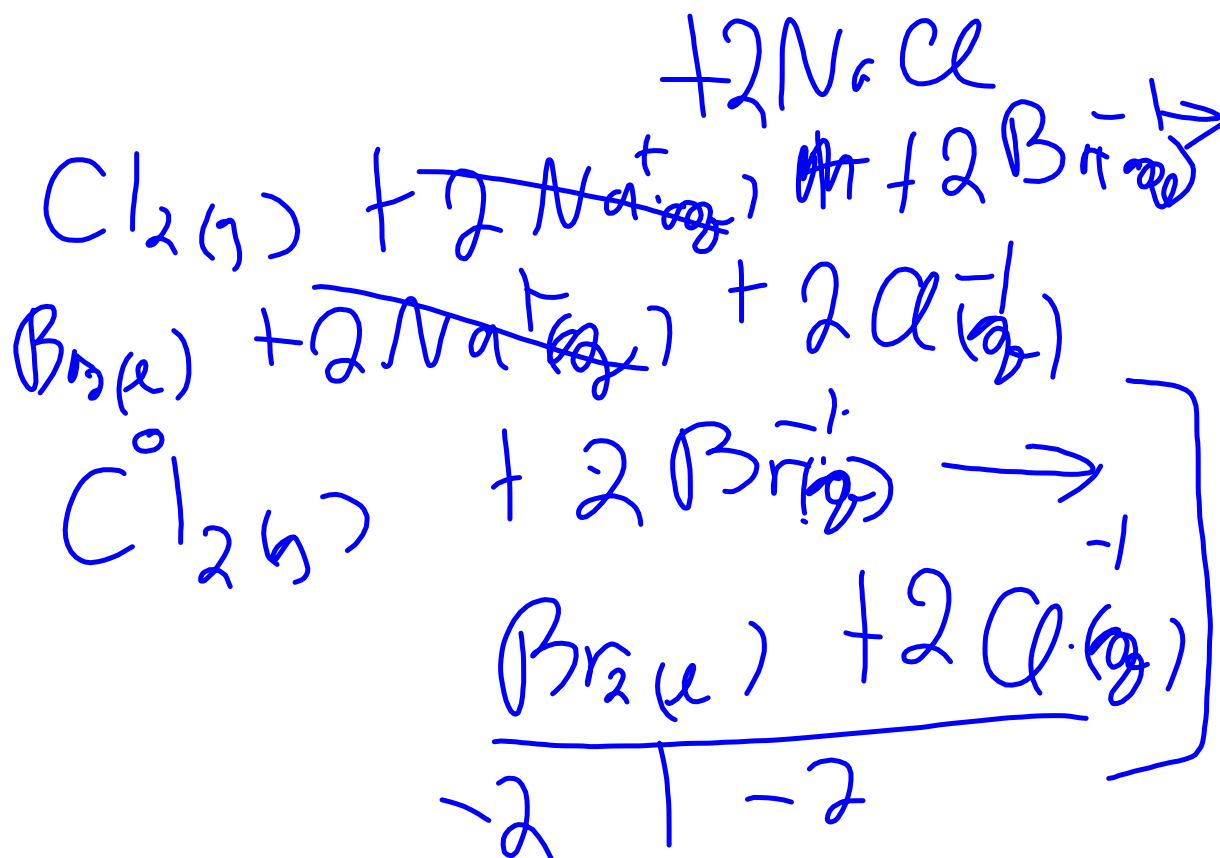
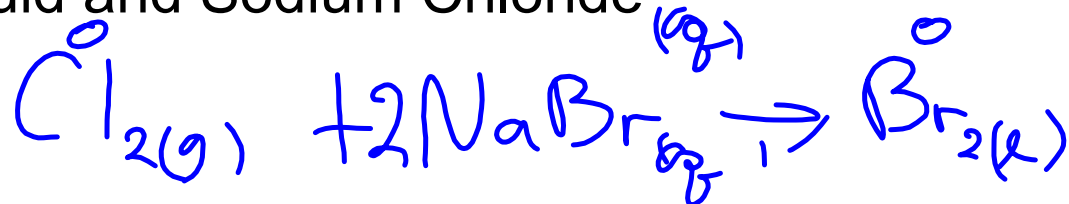
3. Eliminate the spectator ions

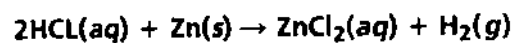
4. Rewrite net ionic equation



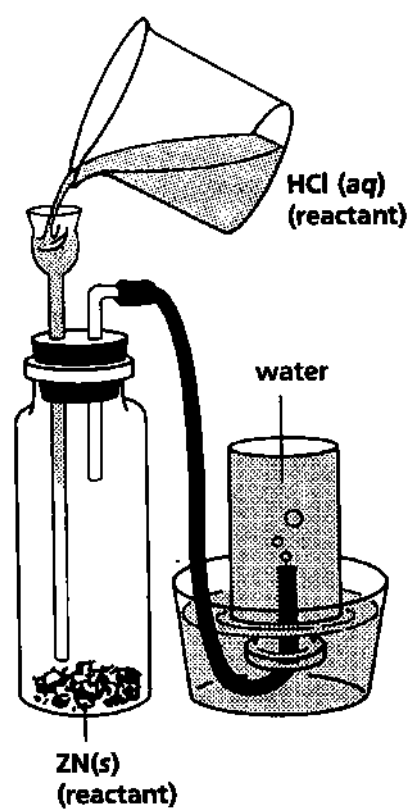
Balance by # of atoms and by charge

Chlorine gas + Sodium Bromide $\Rightarrow$ Bromine liquid and Sodium Chloride

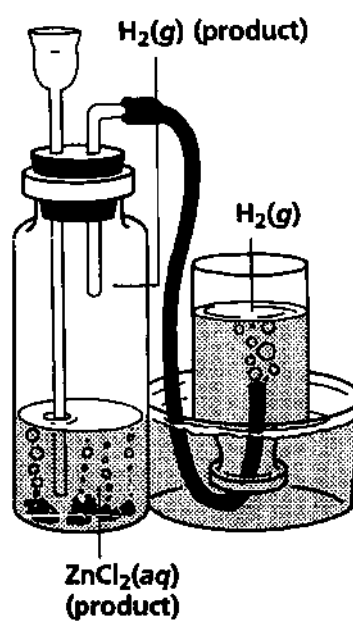




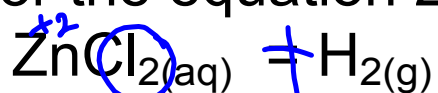
Before Reaction



During Reaction



For the equation $2\text{HCl}_{(\text{aq})} + \text{Zn}_{(\text{s})} \Rightarrow$



a. What ions are present as reactants?



b. What ions are present as products?



c. Name the spectator ions.

