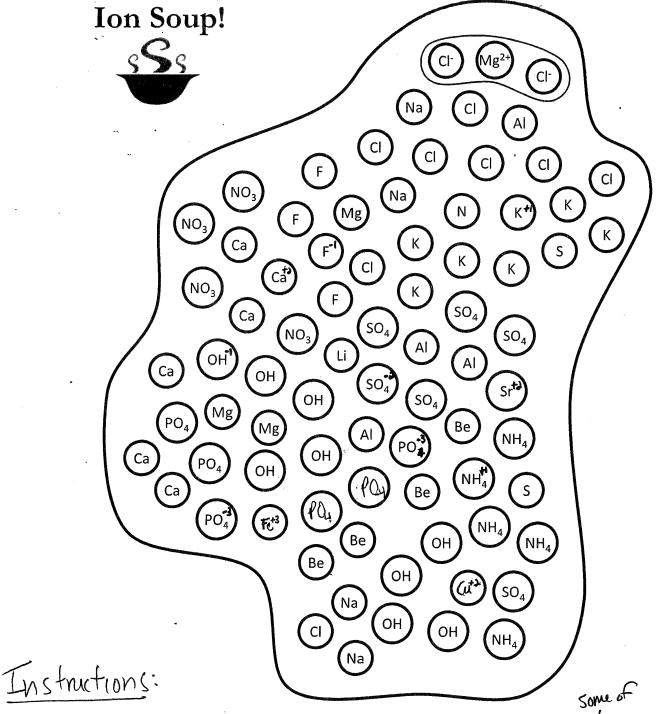
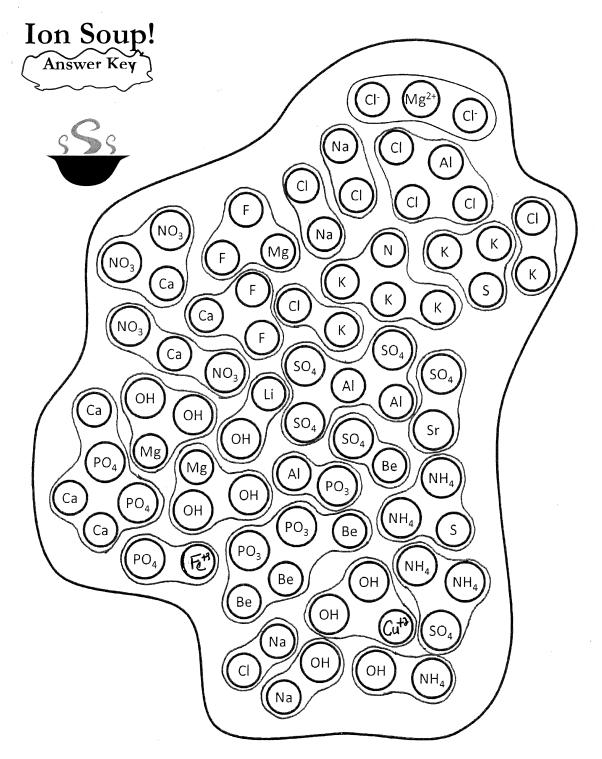
Per





A soup of ions needs to be grouped into neutral ionic compounds. Unfortunately, the charges on the ions got lost when the soup was spilled. You'll have to work out the charges yourself so that you can put the compounds together. Also, you should have **no uncircled ions** when you're done.

The first compound has been completed to start you off. Good luck!



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When you are done, answer the questions on the back.

List the formulas and names of all the compounds you circled in the ion soup. You do not need to list the same formula more than once.

MgCl ₂	magnesium chloride
AICI ₃	aluminum chloride
NaCl	sodium chloride
MgF ₂	magnesium fluoride
<u>K₃N</u>	potassium nitride
<u>K₂S</u>	potassium sulfide
KCl	potassium chloride
Ca(NO ₃)	calcium nitrate
CaF ₂	calcium fluoride
<u>Al₂(SO₄)₃</u>	aluminum sulfate
SrSO ₄	strontium sulfate
LiOH	lithium hydroxide
Mg(OH) ₂	magnesium hydroxide
BeSO ₄	beryllium sulfate
<u>Ca₃(PO₄)₂</u>	calcium phosphate
Fe P.Ou	Iron (III) phosphate
(NH ₄) ₂ S	ammonium sulfide
$Be_3(PO_4)_2$	beryllium phosphate
(NH ₄)SO ₄	ammonium sulfate
Cu(OH)2	Copper (I) hydroxide
NaOH	sodium hydroxide
NH ₄ OH	ammonium hydroxide