

Christopher Whitehead
Sixth Form:
A-level Chemistry Summer
Bridging Task

**Do not print out, just run
through the slide show.**

How to work out chemical formulae

Watch the youtube clip to explain how to work out the formula of a given Compound – JUST WATCH THE FIRST VIDEO CLIP.

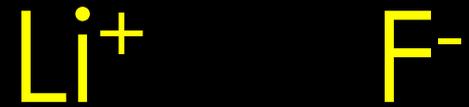
<https://www.youtube.com/watch?v=p9iQ5Qn42DM>

Then work out the formula of the following compounds.

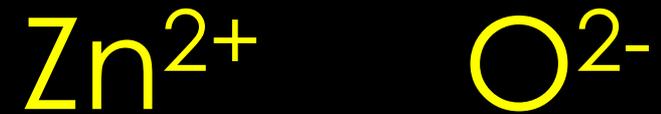
The answers will come when you 'click'

Straightforward
formulae first

lithium fluoride



zinc oxide



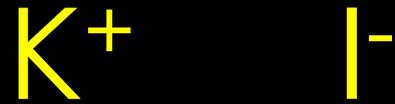
sodium chloride



magnesium sulfide

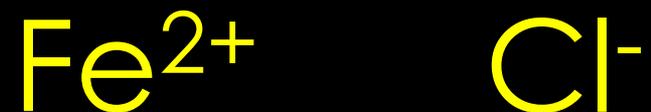


potassium iodide

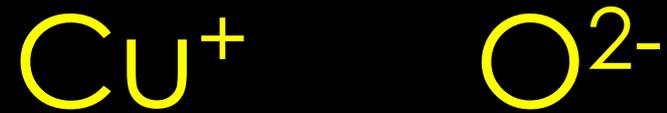


Now for some
slightly more
challenging
formulae

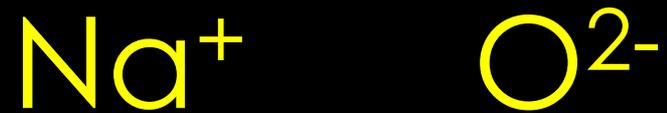
iron (II) chloride



cuprous oxide



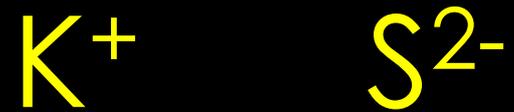
sodium oxide



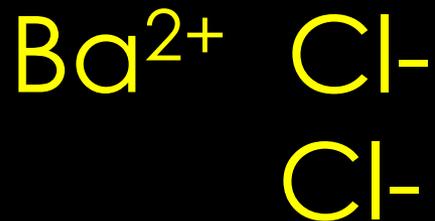
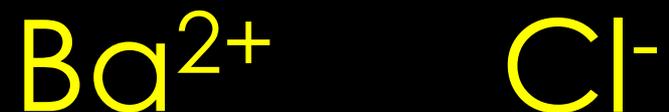
magnesium bromide



potassium sulfide



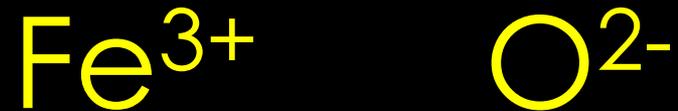
barium chloride



Iron (III) bromide

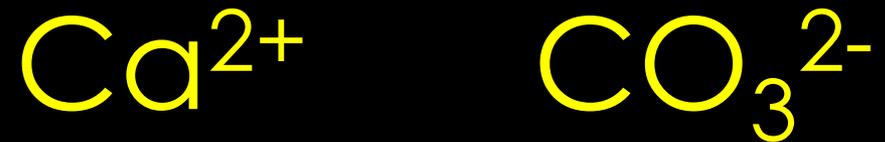


Iron (III) oxide

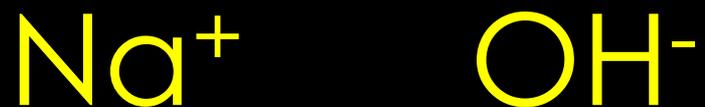


Now lets add some
examples when
complex ions are
needed.

calcium carbonate



sodium hydroxide



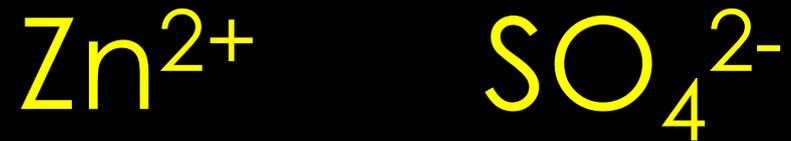
aluminium phosphate



ammonium nitrate



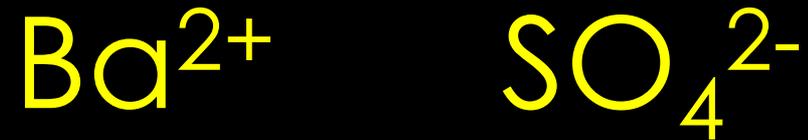
zinc sulfate



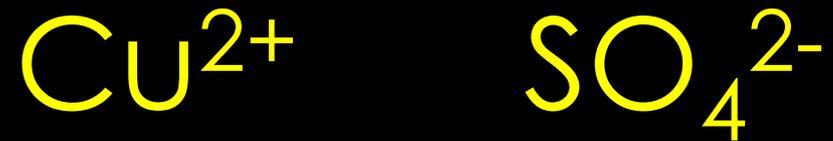
sodium ethanoate



barium sulfate



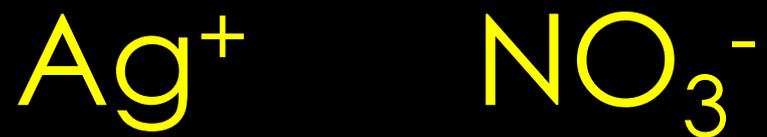
copper (II) sulphate



sodium hydrogencarbonate

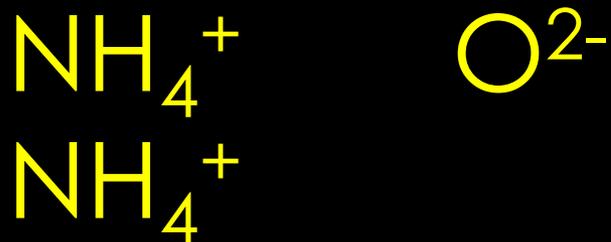


silver nitrate

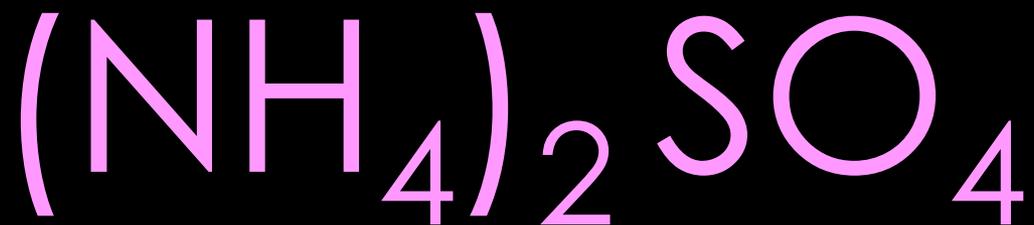


Now lets add some examples when more than one complex ion are needed. Same rules apply but brackets are needed if more than one complex ion is required.

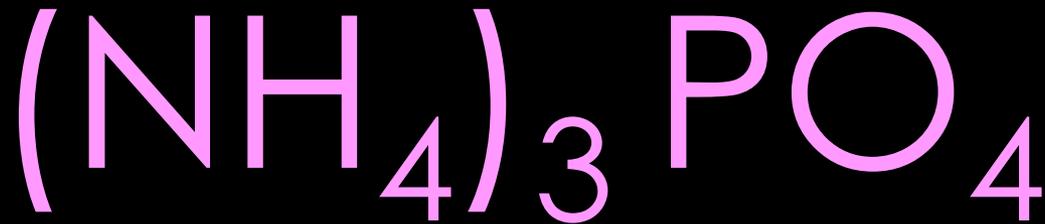
ammonium oxide



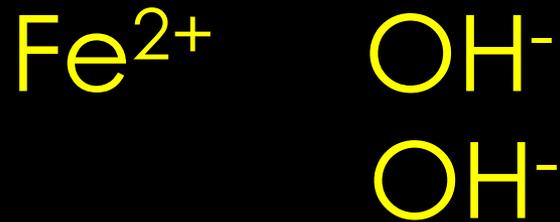
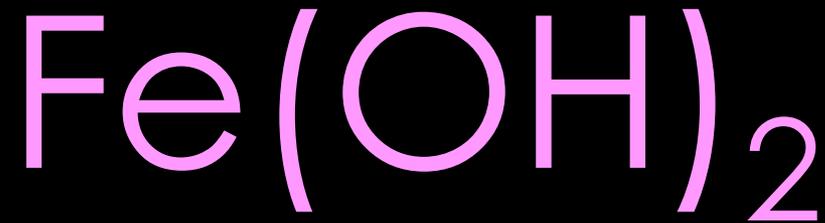
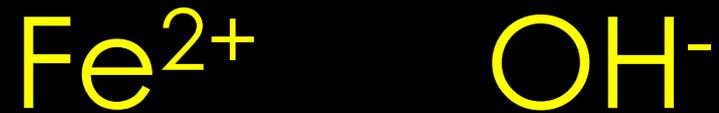
ammonium sulfate



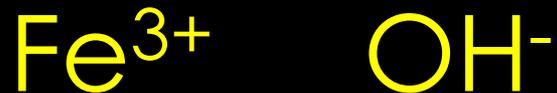
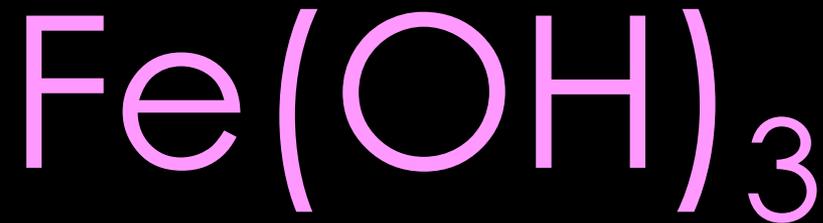
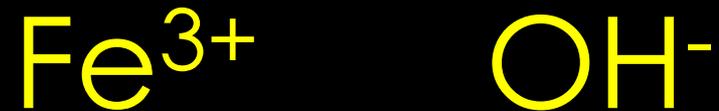
ammonium phosphate



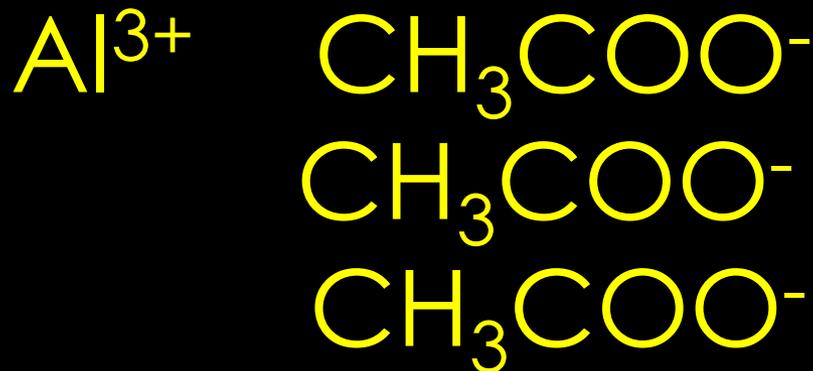
Iron (II) hydroxide



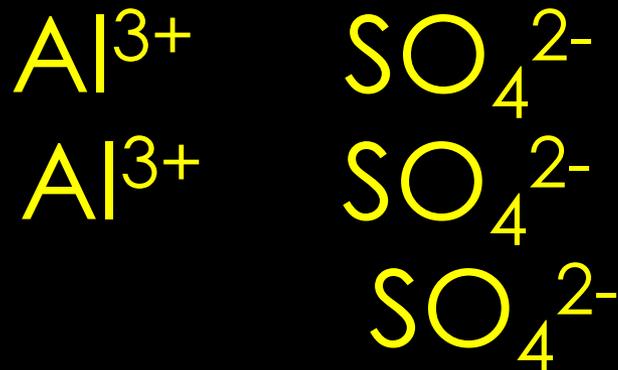
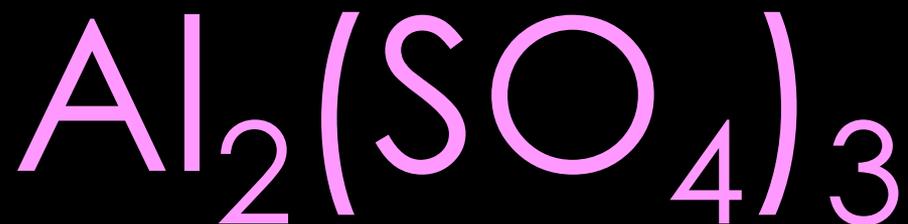
Iron (III) hydroxide



aluminium ethanoate



aluminium sulfate



calcium phosphate

