

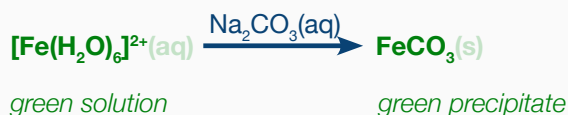
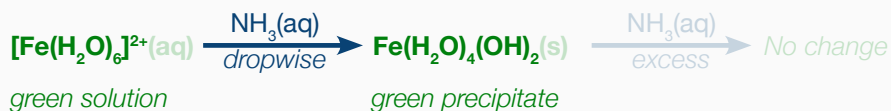
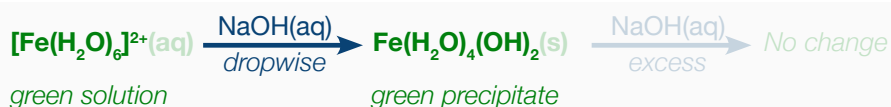


# Inorganic Revision Sheet

## Metal Aqua Ion Reactions for AQA

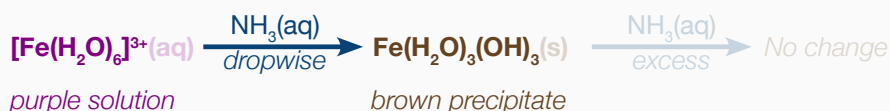
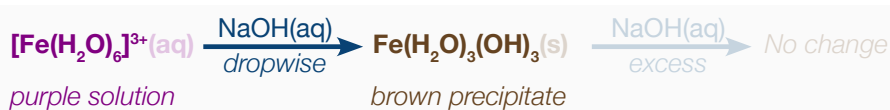
### Iron (II), Fe<sup>2+</sup>

dropwise NaOH or NH<sub>3</sub> = green ppt  
 excess NaOH = no change  
 excess NH<sub>3</sub> = no change  
 adding Na<sub>2</sub>CO<sub>3</sub> = green ppt



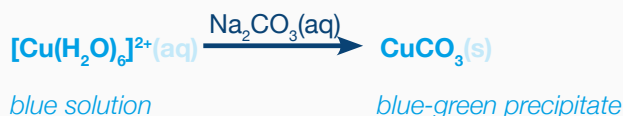
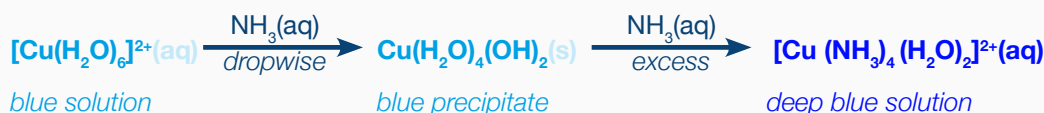
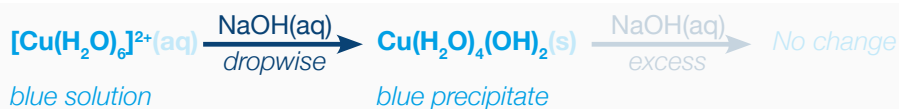
### Iron (III), Fe<sup>3+</sup>

dropwise NaOH or NH<sub>3</sub> = brown ppt  
 excess NaOH = no change  
 excess NH<sub>3</sub> = no change  
 adding Na<sub>2</sub>CO<sub>3</sub> = green ppt



### Copper (II), Cu<sup>2+</sup>

dropwise NaOH or NH<sub>3</sub> = blue ppt  
 excess NaOH = no change  
 excess NH<sub>3</sub> = no change  
 adding Na<sub>2</sub>CO<sub>3</sub> = blue-green ppt



### Aluminium (III), Al<sup>3+</sup>

dropwise NaOH or NH<sub>3</sub> = white ppt  
 excess NaOH = colourless solution  
 excess NH<sub>3</sub> = no change  
 adding Na<sub>2</sub>CO<sub>3</sub> = white ppt

