

PRECIPITATION REACTIONS

Sometimes you are asked for your observations – that is – what would you see.

So you need to know some colours of

- Solutions
- Precipitates

so that you can describe what would be seen during the reaction.

We make this easy for ourselves by learning that most solutions are COLOURLESS and most precipitates are WHITE but then we need to memorise those that are the exceptions.

As there aren't many, please make the effort!!

Solutions (aq)

The solutions you will meet will be **colourless** except....

- Those containing the $\text{Cu}^{2+}(\text{aq})$ ion which will be **blue** if CuSO_4 solution or $\text{Cu}(\text{NO}_3)_2$ solution or a **blue-green** if CuCl_2 solution.
- Those containing the iron(II) ion, $\text{Fe}^{2+}(\text{aq})$ ion which will be a **very pale green** e.g. FeSO_4 or $\text{Fe}(\text{NO}_3)_2$ or FeCl_2 solutions.
- *Those containing the iron(III) ion, $\text{Fe}^{3+}(\text{aq})$ ion which will be a **pale orange** e.g. FeCl_3 or $\text{Fe}_2(\text{SO}_4)_3$ or $\text{Fe}(\text{NO}_3)_2$ solutions. (Iron(III) won't be examined in 2012 but I have included as it will turn up in the past questions).*



