

Name:	Class:
Teacher	Date:

### 3. Cation/anion tests

#### A. Cations

To test for cations we can use sodium hydroxide and ammonium hydroxide solution. The cations are characterised by the coloured precipitates that are formed as a result of the reactions with the above chemicals.

Method:

\*Safety glasses must be worn

\*Care with all chemicals as several are corrosive report all spillages to your teacher

1. Into a test tube put  $1\text{cm}^3$  of the solution containing the cation.
2. Now carefully add, dropwise sodium hydroxide solution until no further reaction occurs.
3. Record all your observations in the table below.
4. Repeat steps 1-3 with all the solutions containing cations.
5. Repeat the whole experiment this time using ammonium hydroxide.

Results:

<b>Cation</b>	<b>Effect of adding</b>	
	Sodium hydroxide	Ammonium hydroxide