CATIONS TEST

FA1, FA2, FA3, FA4, FA5 and FA6 are aqueous solutions each containing one of the ions Al³⁺, Mg²⁺, Cu²⁺, Fe³⁺ and Zn²⁺

You will carry out the following tests on each of the solutions.

At each stage of the test you are to record any colour changes seen, the formation of any precipitate and the solubility of such precipitates in an excess of the reagent added. Where gases are released they should be identified by a test, **describe in the appropriate place in your observations.** Carry out the following tests. Record your observations in the spaces provided in the table.

	TESTS	FA1	FA2	FA3	FA4	FA5	FA6
(a)	To 1cm depth of solution in a test tube add few drops of aqueous sodium hydroxide. Swirl the tube, then	white ppt	white ppt	blue ppt	green ppt turns brown on contact with air	red brown ppt	White ppf
	Add excess of aqueous sodium hydroxide	ppt soluble in excess	Ppt insoluble in excess	Pft insoluble in excess	Ppt insolubole in excess	PPt insoluble in excess	PPt solubole in excess

TESTS		FA1	FA2	FA3	FA4	FA5	FA6
(b)	To 1cm depth of solution in a test tube add few drops of aqueous ammonia. Swirl the tube, then	white ppt	white ppt	blue ppt	green ppt Ppt turns brown on contact with Air	red brown ppt	White ppt
	Add excess of aqueous ammonia	PPt insoluble in excess	Pft insoluble in excess	Pot souble giving a dark blue solution	Ppt insoluble in excess	PPt insoluble in excess	Pft soluble in excess

Results				
solution	cation present			
FA1	Al ^{s+}			
FA2	Mga+ mga+			
FA3 FA4	Cu ²⁺ cap			
FAA	Featury			
FAS	Fe ³⁺ - 2+			
FA5 FA6	Zn ²⁺ Zn ² (ny)			

https://chemistry.com.pk