NAMING COMPOUNDS: BINARY ACIDS

Binary acids contain hydrogen and one other atom.

The names of all binary acids start with the <u>prefix **hydro**</u> and end with the <u>suffix</u> on the root of the second atom in the formula.

the second atom in the formula.				
All acids produce hydrogen ions in	aqueous solution. H ⁺ (aq).			
Some acids are made by dissolving	g polar covalent gaseous molecu	les in water.		
e.g. $HCl_{(g)}$ Hydrogen Chloride	HCl _(aq) Hydrochloric Acid			
Usually acids have the subscri (Aqueous: refers to the fact that it				
To name a Binary acids:	Hydro —	— ic acid		
	non-metal			
Ionic name Hydrogenide	Acid name Hydroic acid	Formula HX _(aq)		
hydrogen fluoride	hydrofluoric acid	HF		
Hydrogen chloride	hydrochloric acid	HC1		
hydrogen bromide	hydrobromic acid	HBr		
hydrogen iodide	hydroiodic acid	HI		
hydrogen sulphide	hydro sulphuric acid	H_2S	(H^{+1})	S ⁻²)
hydrophosphide	hydro phosphoric acid	H_3P	(H^{+1})	P ⁻³)
hydronitride	hydro nitric acid	H_3N		
I. Name the following, (no	ote they are all in aqueous s 4. H ₂ Te	olution):		
	2			-
2. HBr	5. HAt			-
3. H ₂ Se	6. H ₃ N			-
II Write the formula for t	e			
1. hydrofluoric acid	4. hydro	nitric acid		
2. hydrosulphuric acid	5. hydroboric acid			
3. hydrotelluric acid	6. hydrocarbonic acid			