Acid nomenclature

bisulfate

Acids	- formulas	start with	H. names	end	with	the	word	"acid"
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I. Bi	Binary acids - H with a nonmetal								
a.	 naming compounds: hydroic acid; fill in blank with "root" of nonmetal name example: HF = hydrofluoric acid 								
b.	writing formulas: balance nonmetal negative charge with the hydrogen 1+ charge								
II. O	Oxyacids - H with a polyatomic ion containing oxygen								
a.	naming compo	ounds: "ate" ions	ic acid						
		"ite" ions	ous acid						
	example: H ₃ PC	O ₄ contains PO ₄ ²⁻ (ns PO_4^{2-} (phosphate); therefore the acid is phosphori						
	HCIO	₂ contains ClO ₂ (c	hlorite): there	fore, the acid is chlorous acid					
b.	writing formula	s: balance polya	tomic anion	negative charge with the H ⁺ charge					
Name thes	se:		<u>Wri</u>	te these formulas:					
HCI				sulfuric acid					
HBrO ₃			acetic acid						
HNO3			nitrous acid						
H ₂ SO ₃			hydrosulfuric acid						
H ₃ PO ₄			phosphoric acid						
HC ₂ H ₃ O ₂ _				perchloric acid					
H ₂ S				hydroiodic acid					
H ₂ CO ₃				hydrochloric acid					
HF				permanganic acid					
HIO ₃				hydrobromic acid					
	yatomic ions		thiosulfuric acid						
nitrite arsenate	NO_{2} AsO_{4}^{3} $S_{2}O_{3}^{2}$	cyanide CN ⁻ silicate SiO ₃ ²⁻	Cr ₂ O ₇ ²⁻	arsenic acid					
thiosulfate tartarate	$C_4H_4O_6^{2^{-1}}$	dichromate		sulfurous acid					
chromate peroxide	$CrO_4^{2^2}$ $O_2^{2^2}$	oxalate $C_2O_4^{2-}$ thiocyanate		chromic acid					
hypochlorit chlorite	CIO ₂			hydroiodic acid					
chlorate perchlorate	·		iodic acid						
bromate lodate	BrO ₃ IO ₃		oxalic acid						
bisulfate	HSO ₄								