

## **Content Objective:**

I can name and write the formulas of acids and bases using (IUPAC) nomenclature rules.

## Criteria for Success:

I can identify an acid as a binary acid or an oxyacid.

I can name common binary acids, oxyacids, and bases given their chemical formula.

I can write the formula for common binary acids, oxyacids, and bases given their chemical name.

Notes					
<b>A. Binary Acid Nome 1.</b> The name of a binar		the profix			
2. The					
3. The name then ends	with the suffix		<del>.</del>	•	
B. Oxyacid Nomencla	ture				
<b>1.</b> An	is an ac	id that is a comp	ound of hydrogen, o	xygen, and a thir	d element, usually a
nonmetal.	re for ovvacids tyn	ically follow the	name of the		ion involved in
the acid formu		icany ionow the	name of the		
	Name of oxyacid		Name of polyatomic anion		
	Prefix	Suffix	Prefix	Suffix	
	hypo-	-ous	hypo-	-ite	
	None	-ous	None	-ite	
	None	-ic	None	-ate	
C. Base Nomenclatur	per-	-ic	per-	-ate	
	ions that act a eak base that you	as weak bases al need to know th	ases, for this class, y ready discussed. For at you are not alread NFUSED WITH ammo	example, the sully familiar with is	lfate ion, SO <sub>4</sub> -2(aq),
Formula Writing Practice  1. HF hydro Slvoric  2. HC10 hypo chlorous			8. sulfuric acid $H_1 SO_4$		
3. NO2- NATITE			9. phosphoric acid $H_3 PO_4$ 10. acetic acid $H_3 PO_2$		
4. HI hydroidic			11. hydrobromic acid		
5. H <sub>2</sub> CO <sub>3</sub> Carbonic			12. perchloric acid		
6. HClO <sub>3</sub> Choric			13. hydrosulfuric acid		
7. NaOH Sodiui	, hydroxide	Ç	<b>14.</b> ammonia	1/11	