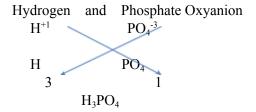
Name	Date	Period
Activity 10-13 Naming and Writing	ng Formulas fo	or Common Acids
Acids are written with the hydrogen ion first. Composecond.	ounds that are not acid	s write the hydrogen ion
Binary Acids Made of the hydrogen ion and a halogen (Growthen acidic, binary acids will be dissolved in Start with the prefix Hydro-End with –ic Acid	. ,	
Name the following Binary Acids: 1. HF (aq)		
2. HCl (aq)		
3. HBr (aq)		
4. HI (aq)		
Oxyacids Made of hydrogen ions and oxyanions Oxyanion ending in –ate changes to –ic Acid Oxyanion ending in –ite changes to –ous Aci Does not start with the prefix hydro-		
Name the following Oxyacids:		
H ₂ SO ₄	H ₂ CO ₃	
HNO ₃	H ₃ PO ₄	
HClO ₄	HClO ₂	
H ₂ SO ₃	H ₃ PO ₃	
HC ₂ H ₃ O ₂	HClO ₃	

Writing Formulas for Common Acids

- 1. All acids start with the hydrogen ion.
- 2. Determine if the acid is binary or is an oxyacid by whether it starts with the prefix Hydro-
- 3. Change oxyanion –*ic Acid* suffixes to the –*ate ion*.
- 4. Change oxyanion *-ous Acid* suffixes to the *-ite ion*.
- 5. If binary, hydrogen is first and the halogen is second.
- 6. Write the oxidation number for the ions.
- 7. Crisscross the oxidation numbers from superscripts to subscripts.

Write the formula for Phosphoric Acid:



Write the formula for the following common acids:

1.	Sulfuric Acid	6.	Carbonic Acid
2.	Nitric Acid	7.	Sulfurous Acid
3.	Phosphoric Acid	8.	Nitrous Acid
4.	Chlorous Acid	9.	Hydrochloric Acid
5.	Hydroiodic Acid	10	Hypochlorous Acid