## **Naming Binary Acids:**

Acids are hydrogen-containing compounds that yield hydrogen ions (H<sup>+</sup>) when dissolved in water. Binary acids are acids that consist of two elements.

Rules for naming binary <u>acids</u>: Use these rules when the compound is in the aqueous state only!

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Type 1 -	INO	DOI	/atom	ic ion

- 1. Start with "hydro"
- 2. Name the second element, ending in -ic
- 3. Suffix: "acid"

Example:

HCl = Hydrochloric Acid

## Type 2 – Containing a polyatomic ion

- 1. Name the polyatomic ion, ending in -ic
- 2. Suffix: "acid"

Example:

H<sub>2</sub>SO<sub>4</sub> = Sulphuric Acid or Sulfuric Acid

## Exercises:

## Name each of the following acids:

- 1. HBr \_\_\_\_\_
- 2. HF \_\_\_\_\_
- 3. H<sub>2</sub>S \_\_\_\_\_
- 4. H<sub>3</sub>P \_\_\_\_\_
- 5. HNO<sub>3</sub>\_\_\_\_\_
- 6. H<sub>2</sub>SO<sub>4</sub>\_\_\_\_\_
- 7. H<sub>3</sub>PO<sub>4</sub>\_\_\_\_\_

Given the name	, provide the	formula f	for each o	of the	following	acids:
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1.	Hydroiodic Acid
2.	Carbonic Acid
3.	Hydrochloric Acid
4.	Phosphoric Acid