CONCEPT:	NAMING	ACIDS
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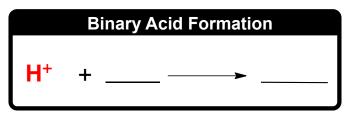
- Acid: usually a covalent compound beginning with a hydrogen ion called the ______ ion.
 - □ Covalent Compound: a compound that contains only _____ bonded together

HCI HNO₂ H₂SO₄ H₃PO₄ HClO₂

Acetic Acid HC₂H₃O₂ or CH₃COOH

Binary Acids

• Represent covalent compounds containing the H+ ion bonded to a nonmetal anion that is not ______.



Rules for Naming Binary Acids

STEP 1: The prefix will be ______ to represent the H⁺ ion.

STEP 2: Use the base name of the nonmetal.

□ When naming acids, we must use _____ for the element S and _____ for the element P.

STEP 3: The suffix will be ______.

EXAMPLE: Write the formula for each of the following compounds:

a. Hydroiodic acid

b. Hydroselenic acid

c. Hydrofluoric acid

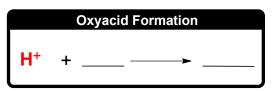
PRACTICE: Give the systematic name for the following compound: H₂S

PRACTICE: Give the systematic name for the following compound: HCN

CONCEPT: NAMING ACIDS

Oxyacids

Represent covalent compounds containing the hydrogen ion bonded to polyatomic ion containing ______.



Rules for Naming Oxyacids

1) If the polyatomic ion ends with *-ate* then change the ending to ______.

MEMORY TOOL I _____ an acid and it was _____!

 H^+ + $NO_3^ \longrightarrow$ HNO_3

2) If the polyatomic ion ends with –ite then change the ending to ______.

MEMORY TOOL I only _____ into things that are _____.

 H^+ + $NO_2^ \longrightarrow$ HNO_2 Nitrite Nitr_

EXAMPLE: Write the formula for each of the following compounds:

a. H₂CO₃

b. H₃PO₃

c. H₂SO₄

PRACTICE: Write the formula for the following compound: Hypobromous acid

PRACTICE: Write the formula for the following compound: Cyanic acid