

ACIDS
- a compound that produces hydrogen ions when dissolved
in water, the H is a +1 ion

NONOXYACID
A binary acid
(Has only 2 elements—no oxygen)

The first element is hydrogen and the second element is a nonmetal

- The name of the acid begins with “**hydro**” then the root of the nonmetal and then ends with “**ic**”

Example:
HCl
(hydrogen chloride)
Hydrochloric acid

OXYACID
contains a polyatomic ion
(Has oxygen in the polyatomic ion)

The name of the acid begins with the root of the polyatomic ion and then...

-if the ion ends with “**ate**”, the acid ends with “**ic**”
-if the ion ends with “**ite**” the acid ends with “**ous**”

(There is no “hydro” at start of name!)

Example:
H₂SO₄
(hydrogen sulfate)
sulfuric acid

| | <u>Formula</u> | <u>Name</u> |
|-----|--------------------------------|-------------------|
| 1. | HBr | _____ |
| 2. | H ₂ S | _____ |
| 3. | H ₂ SO ₃ | _____ |
| 4. | HNO ₂ | _____ |
| 5. | H ₃ PO ₄ | _____ |
| 6. | _____ | chloric acid |
| 7. | _____ | nitric acid |
| 8. | _____ | hydroiodic acid |
| 9. | _____ | acetic acid |
| 10. | _____ | hydrofluoric acid |