

Arrhenius Definitions: When reacting with _____,

- _____ release _____ ions (ex: _____)
- _____ release _____ ions (ex: _____)
- _____ are _____ compounds that release neither _____ ions nor _____ ions

Practice: Write "A" for acid, "B" for base, and "S" for salt.

Solution	Acid (A), Base (B), or Salt (S)	Reacts with Mg (R or NR)	Conductivity (C or NC)
HNO ₃			
NaOH			
NaCl			
H ₂ SO ₄			
HCl			
NH ₄ OH			
KNO ₃			
KOH			
HC ₂ H ₃ O ₂			

OPERATIONAL DEFINITIONS:

ACIDS:

- _____ taste
- react with some _____ to produce _____ gas
- _____
- turn _____ indicators different _____
- react with _____ to produce a _____ and water

BASES:

- _____ taste
- _____
- _____
- turn _____ indicators different _____
- react with _____ to produce a _____ and water

NAMING BASES AND SALTS

To name _____ and _____, follow the standard rules for naming _____ compounds.

NaOH _____
CaCl₂ _____

NAMING ACIDS

BINARY ACID

- only _____ elements
- first element is _____
- named--hydro_____ic acid
- HCl _____

TERNARY ACID

- _____ elements
- first element is _____
- other elements part of a _____ ion
- naming does NOT require a prefix
- _____ → _____
- _____ → _____

- H_2SO_4 - _____ acid
- H_2SO_3 - _____ acid

Examples:

H_3PO_4 _____

HF _____

HClO_2 _____

Name the following acids:

The Chemistry Quiz

CR1.

CR2.

1.

2.

3.

4.

5.