

Acids and Bases Nomenclature

1) What is a binary acid?

2) What is a monatomic ion?

3) What is a diatomic ion?

4) Where are the alkali metals located on the periodic table?

5) Name the following acids.

Acid Formula	Positive Ion	Negative Ion	Acid Name
Example: HF	H ⁺	F ⁻	Hydrofluoric acid
HNO ₃			
H ₂ SO ₄			
H ₃ PO ₄			
H ₂ Se			
H ₂ CO ₃			

6) Write the formula for the following acids.

Acid Name	Positive Ion	Negative Ion	Acid Formula
Example: Hydrobromic acid	H ⁺	Br ⁻	HBr
Acetic acid			
Chloric acid			
Hydrosulfuric acid			
Bromic acid			
Hydroiodic acid			

Acids and Bases Nomenclature

Answers

1) What is a binary acid?

Compounds in which hydrogen combines with a second nonmetallic element

2) What is a monatomic ion?

An ion formed from a single atom

3) What is a diatomic ion?

An ion in which two atoms are chemically bonded

4) Where are the alkali metals located on the periodic table?

In the first group on the left side

5) Name the following acids.

Acid Formula	Positive Ion	Negative Ion	Acid Name
Example: HF	H ⁺	F ⁻	Hydrofluoric acid
HNO ₃	H ⁺	NO ₃ ⁻	Nitric acid
H ₂ SO ₄	H ⁺	SO ₄ ²⁻	Sulfuric acid
H ₃ PO ₄	H ⁺	PO ₄ ³⁻	Phosphoric acid
H ₂ Se	H ⁺	Se ²⁻	Hydroselenic acid
H ₂ CO ₃	H ⁺	CO ₃ ²⁻	Carbonic acid

6) Write the formula for the following acids.

Acid Name	Positive Ion	Negative Ion	Acid Formula
Example: Hydrobromic acid	H ⁺	Br ⁻	HBr
Acetic acid	H ⁺	CH ₃ COO ⁻	CH ₃ COOH
Chloric acid	H ⁺	ClO ₄ ⁻	HClO ₄
Hydrosulfuric acid	H ⁺	S ²⁻	H ₂ S
Bromic acid	H ⁺	BrO ₄ ⁻	HBrO ₄
Hydroiodic acid	H ⁺	I ⁻	HI