

Name : _____

Naming Acids and Bases

1) How can you tell by looking at a chemical formula that it is an acid?

2) What is an oxyacid?

Below are the formulas of several compounds. Circle the binary acids and put a square around the oxyacids

HCl H₂S HMnO₄ NaOH HC₂H₃O₂ HF Sr(OH)₂ H₂SO₄ NH₃

3) Fill in the chart about naming binary acids.

Acid Formula	Positive Ion	Negative Ion	Acid Name
Example: HF	H ⁺	F ⁻	Hydrofluoric acid
HCl			
HBr			
HI			
H ₂ S			
H ₂ Se			

4) Fill in the chart about naming oxyacids.

Acid Formula	Positive Ion	Negative Ion	Acid Name
Example: H ₂ SO ₄	H ⁺	SO ₄ ²⁻	Sulfuric acid
HMnO ₄			
HClO ₄			
HIO ₄			
HCIO			
C ₂ H ₂ O ₄			

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Answers

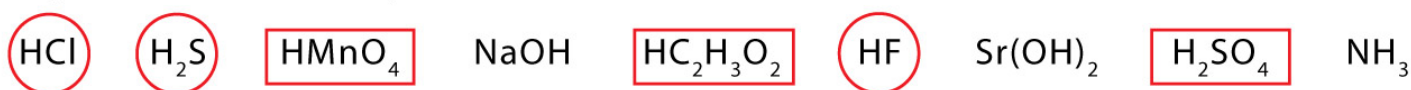
- 1) How can you tell by looking at a chemical formula that it is an acid?

If it starts with hydrogen

- 2) What is an oxyacid?

An acid containing hydrogen, oxygen, and one or more elements

Below are the formulas of several compounds. Circle the binary acids and put a square around the oxyacids



- 3) Fill in the chart about naming binary acids.

Acid Formula	Positive Ion	Negative Ion	Acid Name
Example: HF	H^+	F^-	Hydrofluoric acid
HCl	H^+	Cl^-	Hydrochloric acid
HBr	H^+	Br^-	Hydrobromic acid
HI	H^+	I^-	Hydroiodic acid
H_2S	H^+	S^{2-}	Hydrosulfuric acid
H_2Se	H^+	Se^{2-}	Hydroselenic acid

- 4) Fill in the chart about naming oxyacids.

Acid Formula	Positive Ion	Negative Ion	Acid Name
Example: H_2SO_4	H^+	SO_4^{2-}	Sulfuric acid
HMnO_4	H^+	MnO_4^-	Permanganic acid
HClO_4	H^+	ClO_4^-	Perchloric acid
HIO_4	H^+	IO_4^-	Periodic acid
HClO	H^+	ClO^-	Hypochlorous acid
$\text{C}_2\text{H}_2\text{O}_4$	H^+	$\text{C}_2\text{O}_4^{2-}$	Oxalic acid