

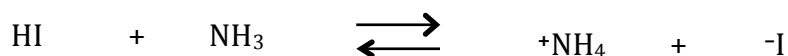
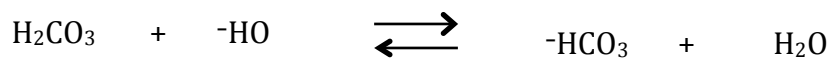
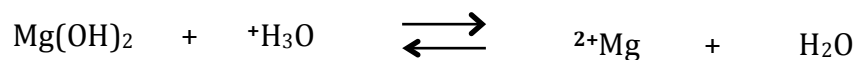
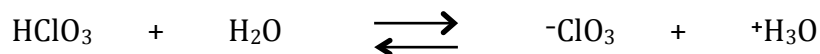
1.1 – WORKSHEET CONJUGATE ACID/BASE PAIRS

Please complete the following table by providing the correct names and formulas of the following acids or bases.

Name	Acid	Conjugate Base	Name
	HI		
		H ₂ PO ₄	
Hydrocyanic Acid			
			Water
	HNO ₃		
			Ammonia
Carbonic Acid			
	-HCO ₃		

Name	Conjugate Acid	Base	Name
		-OH	
			Phosphate Ion
Acetic Acid			
		-NO ₂	
	HCl		
		²⁻ SO ₄	
Hydrobromic Acid			
	HClO ₄		

In the following equations, label the correct Brønsted-Lowery acid/base. Then, label the conjugate acid/base.



1.1 – WORKSHEET – KEY

CONJUGATE ACID/BASE PAIRS

Please complete the following table by providing the correct names and formulas of the following acids or bases.

Name	Acid	Conjugate Base	Name
Hydroiodic Acid	HI	-I	Iodide Ion
Phosphoric Acid	H ₃ PO ₄	-H ₂ PO ₄	Dihydrogen Phosphate
Hydrocyanic Acid	HCN	-CN	Cyanide Ion
Hydronium Ion	+H ₃ O	H ₂ O	Water
Nitric Acid	HNO ₃	-NO ₃	Nitrate Ion
Ammonium	+NH ₄	NH ₃	Ammonia
Carbonic Acid	H ₂ CO ₃	-HCO ₃	Bicarbonate Ion
Bicarbonate Ion	-HCO ₃	²⁻ CO ₃	Carbonate Ion

Name	Conjugate Acid	Base	Name
Water	H ₂ O	-OH	Hydroxide Ion
Hydrogen Phosphate	²⁻ HPO ₄	³⁻ PO ₄	Phosphate Ion
Acetic Acid	CH ₃ COOH	CH ₃ COO ⁻	Acetate
Nitrous Acid	HNO ₂	-NO ₂	Nitrite Ion
Hydrochloric Acid	HCl	-Cl	Chloride Ion
Hydrogen Sulfate	-HSO ₄	²⁻ SO ₄	Sulfate Ion
Hydrobromic Acid	HBr	-Br	Bromide Ion
Perchloric Acid	HClO ₄	-ClO ₄	Perchlorate Ion

In the following equations, label the correct Brønsted-Lowery acid/base. Then, label the conjugate acid/base.

