

Chemistry Ions Handout

<u>Element</u>	<u>Ion Name</u>	<u>Symbol</u>	<u>Polyatomic Ion Name</u>	<u>Formula</u>
Hydrogen	Hydrogen ion	H ⁺	1+	
Cesium	Cesium ion	Cs ⁺	Ammonium ion	NH ₄ ⁺
Lithium	Lithium ion	Li ⁺	Hydronium ion	H ₃ O ⁺
Potassium	Potassium ion	K ⁺		
Rubidium	Rubidium ion	Rb ⁺	1-	
Silver	Silver ion	Ag ⁺	Acetate ion	C ₂ H ₃ O ₂ ⁻
Sodium	Sodium ion	Na ⁺	Amide ion	NH ₂ ⁻
Barium	Barium ion	Ba ²⁺	Chlorate ion	ClO ₃ ⁻
Beryllium	Beryllium ion	Be ²⁺	Chlorite ion	ClO ₂ ⁻
Calcium	Calcium ion	Ca ²⁺	Cyanate ion	OCN ⁻
Magnesium	Magnesium ion	Mg ²⁺	Cyanide ion	CN ⁻
Strontium	Strontium ion	Sr ²⁺	Dihydrogen phosphate ion	H ₂ PO ₄ ⁻
Zinc	Zinc ion	Zn ²⁺	Formate ion	CHO ₂ ⁻
Aluminum	Aluminum ion	Al ³⁺	Hydrogen carbonate (bicarbonate) ion	HCO ₃ ⁻
Bromine	Bromide ion	Br ⁻	Hydrogen sulfate (bisulfate) ion	HSO ₄ ⁻
Chlorine	Chloride ion	Cl ⁻	Hydrogen sulfite (bisulfite) ion	HSO ₃ ⁻
Fluorine	Fluoride ion	F ⁻	Hydroxide ion	OH ⁻
Hydrogen	Hydride ion	H ⁻	Hypochlorite ion	ClO ⁻
Iodine	Iodide ion	I ⁻	Nitrate ion	NO ₃ ⁻
Oxygen	Oxide ion	O ²⁻	Nitrite ion	NO ₂ ⁻
Selenide	Selenide ion	Se ²⁻	Perchlorate ion	ClO ₄ ⁻
Sulfur	Sulfide ion	S ²⁻	Permanganate ion	MnO ₄ ⁻
Arsenic	Arsenide ion	As ³⁻	Thiocyanate ion	NCS ⁻
Nitrogen	Nitride ion	N ³⁻		
Phosphorus	Phosphide ion	P ³⁻	2-	
	Multiple Charge Ions	Symbol	Carbonate ion	CO ₃ ²⁻
Chromium	Chromium (II) ion	Cr ²⁺	Chromate ion	CrO ₄ ²⁻
	Chromium (III) ion	Cr ³⁺	Dichromate ion	Cr ₂ O ₇ ²⁻
Cobalt	Cobalt (II) ion	Co ²⁺	Hydrogen phosphate ion	HPO ₄ ²⁻
	Cobalt (III) ion	Co ³⁺	Oxalate ion	C ₂ O ₄ ²⁻
Copper	Copper (I) ion	Cu ⁺	Peroxide ion	O ₂ ²⁻
	Copper (II) ion	Cu ²⁺	Phosphite ion	HPO ₃ ²⁻
Iron	Iron (II) ion	Fe ²⁺	Silicate ion	SiO ₃ ²⁻
	Iron (III) ion	Fe ³⁺	Sulfate ion	SO ₄ ²⁻
Lead	Lead (II) ion	Pb ²⁺	Sulfite ion	SO ₃ ²⁻
	Lead (IV) ion	Pb ⁴⁺	Thiosulfate ion	S ₂ O ₃ ²⁻
Manganese	Manganese (II) ion	Mn ²⁺		
	Manganese (III) ion	Mn ³⁺	3-	
Mercury	Mercury (I) ion	Hg ⁺	Arsenate ion	AsO ₄ ³⁻
	Mercury (II) ion	Hg ²⁺	Borate ion	BO ₃ ³⁻
Tin	Tin (II) ion	Sn ²⁺	Phosphate ion	PO ₄ ³⁻
	Tin (IV) ion	Sn ⁴⁺		

