

# IONS AND THEIR CHARGES WORKSHEET

Complete the following table with the appropriate information.

Name of the Element	Ionic Symbol	Cation or Anion?
	$\text{Al}^{3+}$	
	$\text{Be}^{2+}$	
	$\text{Br}^-$	
	$\text{Ca}^{2+}$	
	$\text{Ce}^{2+}$	
	$\text{Cl}^-$	
	$\text{Cu}^+$ or $\text{Cu}^{2+}$	
	$\text{F}^-$	
	$\text{H}^+$	
	$\text{I}^-$	
	$\text{Fe}^{2+}$ or $\text{Fe}^{3+}$	
	$\text{Li}^+$	
	$\text{Mn}^{2+}$ , $\text{Mn}^{3+}$ , $\text{Mn}^{4+}$ , $\text{Mn}^{6+}$ , $\text{Mn}^{7+}$	
	$\text{N}^{3-}$	
	$\text{O}^{2-}$	
	$\text{P}^{3-}$	
	$\text{Na}^+$	
	$\text{S}^{2-}$	
	$\text{Sn}^{2+}$ , $\text{Sn}^{4+}$	

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## Answers

Name of the Element	Ionic Symbol	Cation or Anion?
Aluminum	$\text{Al}^{3+}$	Cation
Beryllium	$\text{Be}^{2+}$	Cation
Bromine	$\text{Br}^-$	Anion
Calcium	$\text{Ca}^{2+}$	Cation
Cesium	$\text{Ce}^{2+}$	Cation
Chlorine	$\text{Cl}^-$	Anion
Copper	$\text{Cu}^+$ or $\text{Cu}^{2+}$	Cation
Fluorine	$\text{F}^-$	Anion
Hydrogen	$\text{H}^+$	Cation
Iodine	$\text{I}^-$	Anion
Iron	$\text{Fe}^{2+}$ or $\text{Fe}^{3+}$	Cation
Lithium	$\text{Li}^+$	Cation
Manganese	$\text{Mn}^{2+}$ , $\text{Mn}^{3+}$ , $\text{Mn}^{4+}$ , $\text{Mn}^{6+}$ , $\text{Mn}^{7+}$	Cation
Nitrogen	$\text{N}^{3-}$	Anion
Oxygen	$\text{O}^{2-}$	Anion
Phosphorus	$\text{P}^{3-}$	Anion
Sodium	$\text{Na}^+$	Cation
Sulfur	$\text{S}^{2-}$	Anion
Tin	$\text{Sn}^{2+}$ , $\text{Sn}^{4+}$	Cation