

### Quiz (Chemical Formulae and Names of Ionic Compounds)

1. Write the names and formulae of the following compounds.

	<b>Cation</b>	<b>Anion</b>	<b>Name of the compound</b>	<b>Formula of the compound</b>
(a)	$\text{NH}_4^+$	$\text{Cl}^-$		
(b)	$\text{Mg}^{2+}$	$\text{OH}^-$		
(c)	$\text{Li}^+$	$\text{NO}_2^-$		
(d)	$\text{Zn}^{2+}$	$\text{SO}_4^{2-}$		
(e)	$\text{Co}^{2+}$	$\text{NO}_3^-$		
(f)	$\text{Cr}^{3+}$	$\text{Br}^-$		
(g)	$\text{Fe}^{3+}$	$\text{PO}_4^{3-}$		
(h)	$\text{Mn}^{2+}$	$\text{SO}_3^{2-}$		
(i)	$\text{Fe}^{2+}$	$\text{O}^{2-}$		
(j)	$\text{Ca}^{2+}$	$\text{CO}_3^{2-}$		

2. Write the names of the following compounds.

- (a)  $\text{Ca}(\text{NO}_3)_2$
- (b)  $\text{Fe}_2\text{O}_3$
- (c)  $\text{Al}(\text{OH})_3$
- (d)  $\text{MgS}$
- (e)  $(\text{NH}_4)_2\text{CO}_3$
- (f)  $\text{Cr}_2\text{S}_3$
- (g)  $\text{FeI}_3$
- (h)  $\text{Ni}_3(\text{PO}_4)_2$
- (i)  $\text{KMnO}_4$
- (j)  $\text{Na}_2\text{SO}_3$

## Suggested Answer

1.

	Cation	Anion	Name of the compound	Formula of the compound
(a)	$\text{NH}_4^+$	$\text{Cl}^-$	Ammonium chloride	$\text{NH}_4\text{Cl}$
(b)	$\text{Mg}^{2+}$	$\text{OH}^-$	Magnesium hydroxide	$\text{Mg}(\text{OH})_2$
(c)	$\text{Li}^+$	$\text{NO}_2^-$	Lithium nitrite	$\text{LiNO}_2$
(d)	$\text{Zn}^{2+}$	$\text{SO}_4^{2-}$	Zinc sulphate	$\text{ZnSO}_4$
(e)	$\text{Co}^{2+}$	$\text{NO}_3^-$	Cobalt(II) nitrate	$\text{Co}(\text{NO}_3)_2$
(f)	$\text{Cr}^{3+}$	$\text{Br}^-$	Chromium(III) bromide	$\text{CrBr}_3$
(g)	$\text{Fe}^{3+}$	$\text{PO}_4^{3-}$	Iron(III) phosphate	$\text{FePO}_4$
(h)	$\text{Mn}^{2+}$	$\text{SO}_3^{2-}$	Manganese(II) sulphite	$\text{MnSO}_3$
(i)	$\text{Fe}^{2+}$	$\text{O}^{2-}$	Iron(II) oxide	$\text{FeO}$
(j)	$\text{Ca}^{2+}$	$\text{CO}_3^{2-}$	Calcium carbonate	$\text{CaCO}_3$

2. (a) Calcium nitrate  
 (b) Iron(III) oxide  
 (c) Aluminium hydroxide  
 (d) Magnesium sulphide  
 (e) Ammonium carbonate  
 (f) Chromium(III) sulphide  
 (g) Iron(III) iodide  
 (h) Nickel(II) phosphate  
 (i) Potassium permanganate  
 (j) Sodium sulphite