A level chemistry transition



lons, Ionic compounds and ionic equations

Section 1 - Ions

1. Very simply can you write out the formula of each of the following ions:

Chloride	Calcium	Sulphide	Sulphate	Nitride
Nitrate	Manganese(IIV)	Chromium(VI)	Chromium(III)	Ammonium

(10)

Section 2 – Ionic compounds

2. Again very simply write the full ionic formula for each of the following ionic compounds.

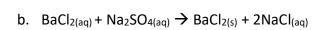
	T		
Sodium Bromide	Copper(II) Oxide		
Potassium Iodide	Sodium Sulphate		
Calcium Fluoride	Ammonium Hydroxide		
Sodium Oxide	Magnesium Hydroxide		
Aluminium Chloride	Potassium Nitrate	Potassium Nitrate	
Iron(II)Oxide	Iron(III) Sulphate		
Magnesium Sulphide	Copper(I) Carbonate		
Lithium Oxide	Ammonium Sulphate		
Aluminium Oxide	Aluminium Nitrate		
Copper(I) Oxide	Aluminium Carbonate		
Sodium Sulphide	Iron(II) Nitrate		
Aluminium Nitride	Lithium Sulphate		
Ammonium Nitrate	Zinc(II) Nitrate		
Calcium Carbonate	Silver(I) Chloride		
Magnesium Nitrate	Lead(II) Nitrate		

(30)

Section 3 – Ionic equations

- 3. Convert the following symbol equations into their ionic equation.
 - a. $AgNO_{3(aq)} + KCI_{(aq)} \rightarrow AgCI_{(s)} + KNO_{3(aq)}$

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	C.	$2NaOH(aq) + FeSO4(aq) \rightarrow Na2SO4(aq) + Fe(OH)2(s)$ (2)
	d.	(2) What is the name for a solid formed from solution as has happened in each of the previous questions?(1)
		fully balanced symbol equations, with state symbols for each of the following en write out their ionic equation.
u.		Calcium hydroxide reacting with hydrochloric acid. (4)
Equation	:	
Ionic equ	atior	1:
	b.	Sulphuric acid reacting with sodium hydroxide (4)
Equation	:	
Ionic equ	atior	n:
	c.	Nitric acid reacting with potassium hydroxide (4)
Equation	:	
Ionic equ	atior	n:
	d.	What do you notice about the ionic equations for each of the previous reactions?
		(1)
	e.	What type of reaction is it?
	f.	Now see how this reaction differs, again write out both a fully balanced
		symbol equation and the ionic equation.
		Calcium carbonate reacting with sulphuric acid (4)
Equation	:	
Ionic equ	atior	1:
		Total: / 65