Task 2 Quantitative - Worksheet 1: Chemical formulae

Write the formulae of the following compounds.

		_
Copper(II) sulfate		
		_
Nitric acid		
		_
Copper(II) nitrate		
		_
Sulfuric acid		
		_
Sodium carbonate		
Aluminium sulfate		
Ammonium nitrate		
		_
Nitrogen dioxide		
Sulfur dioxide		
		_
Ammonia		
		_
Ammonium sulfate		
, Sanace		
Potassium hydroxide	 -	
		_
Calcium hydroxide		

Task 2 Quantitative - Worksheet 2: Cations and anions

Complete the table below to show the substance, its formula and its individual ions.

Substance	Formula	Cation (exact number)	Anion (exact number)
Sodium bromide			
	KI		
Silver nitrate			
Copper(II) sulfate			
	NaHCO₃		
Magnesium carbonate			
Lithium carbonate			
	Ca(HSO ₄) ₂		
Aluminium nitrate			
Calcium phosphate			
Potassium hydride			
Sodium ethanoate			
	KMnO ₄		
Potassium dichromate(VI)			
Zinc chloride			
Strontium nitrate			
Sodium chromate(VI)			
Calcium fluoride			
Potassium sulfide			
Magnesium nitride			
Lithium hydrogensulfate			
	(NH ₄) ₂ SO ₄		

Task 3 Quantitative - Worksheet 3: Writing equations

Write:	(a) the chemical equation and (b) the ionic equation for each of the following
	reactions.

1	Magnesium with sulfuric acid
2	Calcium carbonate with nitric acid
3	Hydrochloric acid with sodium hydroxide
4	Aqueous barium chloride with aqueous sodium sulfate
5	Aqueous sodium hydroxide with sulfuric acid
6	Aqueous silver nitrate with aqueous magnesium chloride
7	Solid magnesium oxide with nitric acid
8	Aqueous copper(II) sulfate with aqueous sodium hydroxide
9	Aqueous lead(II) nitrate with aqueous potassium iodide
10	Aqueous iron(III) nitrate with aqueous sodium hydroxide