

Chemistry 1 a Week Activity		Higher	11 th Week
Name:		Class:	
Complete the table by giving the three missing formulae.			
Name of compound	Formula of compound	Formula of cation in compound	Formula of anion in compound
Lithium oxide		Li ⁺	
Lithium carbonate	Li ₂ CO ₃	Li ⁺	
State the formula of aluminium oxide.		State the general formula of an alkane.	
The equation for a reaction is: $\text{HBr} + \text{NaOH} \rightarrow \text{NaBr} + \text{H}_2\text{O}$ A solution of hydrobromic acid has a concentration of 0.200 mol/dm³. i. Calculate the amount, in moles, of HBr in 20.0 cm³ of the hydrobromic acid solution. Amount of HBr = ... mol ii. Calculate the volume of 0.100 mol/dm³ sodium hydroxide solution needed to exactly neutralise the hydrobromic acid. Volume of sodium hydroxide = ... cm³			
State the formula of a sulfate ion.		State the electronic configuration of Na ⁺	
Define diffusion. 			
Balance the following equations. $\text{CuCO}_3 + \text{..... HCl} \rightarrow \text{.....} + \text{CO}_2 + \text{H}_2\text{O}$ $\text{..... Fe} + \text{..... O}_2 \rightarrow \text{..... Fe}_2\text{O}_3$			
Explain, in terms of bonding, why graphite conducts electricity. 			