MINISTRY OF EDUCATION, HERITAGE AND ARTS **YEAR 12 CHEMISTRY REVISION WORKSHEET 2**

Write the answers to the following questions in your exercise/activity books.

Stra	nd 2:	Investigating Matter	
1.	State (i) (ii) (iii)	an example of a/an: non-polar covalent bond polar covalent bond ionic bond	(3 marks)
2.	Explain why copper metal can conduct electricity but solid sodium chloride o		e cannot. (2 marks)

Using an illustration, describe the hydration of potassium chloride (KCl) salt in water. 3.

(2 marks)

Strand 3: Reactions

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1.	Determine the molar mass of the following compounds:				
	(i) (ii)	Potassium chloride (KCl) Sodium carbonate (Na ₂ CO ₃)	(2 marks) (2 marks)		
2.	Deterr	Determine the mass of 0.01 mol of sodium carbonate. (1 mark)			
3.	Determine the mass of carbon dioxide produced when 25.0 g of methane gas is burnt. (3 m				
4.	Calculate the empirical formula of a substance with the following percentage compositions: 1.6% hydrogen, 22.2% nitrogen, 76.2% oxygen.				
5.	Define Water of Crystallisation.				
6.	Strong heating of 6.72 g of hydrated magnesium sulphate (MgSO ₄ .XH ₂ O) produced 4.12 g of anhydrous magnesium sulphate.				
	(i)	Calculate the value of \mathbf{X} .	(3 marks)		
	(ii)	Write the formula of the hydrated salt.	(1 mark)		

The End