0 1	The diagrams represent the atoms that make up a molecule of methar formula for methane is CH <sub>4</sub> .	ie. IIIe
	Carbon Hydrogen	
0 1 . 1	In the box above, draw a molecule of methane. You need only represer outermost shells in your diagram.	nt the [2 marks]
0 1 . 2	Name the type of bond that you have represented in your diagram.	[1 mark]
0 2	Hydrogen chloride (HCl) can be made by the reaction of hydrogen $(H_2)$ chlorine $(Cl_2)$ .	with
0 2 . 1	In the box below, draw a diagram to represent a molecule of hydrogen (HCI).	chloride
	You need show only the outer energy level (shell) electrons.	[3 marks]

0 2 . 2	The word equation for the reaction of hydrogen with chlorine is shown below.	
	hydrogen + chlorine → hydrogen chloride	
	Write a balanced symbol equation for this reaction. [2 marks	
0 3	One of the gases present in the atmosphere is water vapour.	
0 3 . 1	Describe the bonding in this compound. (You must include electronic structures in your explanation.)	
	[4 marks	
	(Total 12 marks	
	(Total 12 marks	

End