1	The diagrams represent the formula for methane is CH ₄ .	atoms that make up a molecule of methane. The	
	X X X		
_	Carbon	Hydrogen	
	outermost shells in your dia		marks)
ι (α) (ι			
		· ·	mark)
2	Hydrogen chloride (HCl) car (Cl ₂).	(Total 3 none in be made by the reaction of hydrogen (H ₂) with chlo	
2 (a)	In the space below draw a d (HCI).	liagram to represent a molecule of hydrogen chlorid	е
	You need show only the out	ter energy level (shell) electrons.	
		(3)	marks)

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Do not write outside the

Structure of Molecules

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 mar
(Total 5 mari
One of the gases present in the atmosphere is water vapour. Describe the bonding this compound. You must include electronic structures in your explanation.
(4 mark
·

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