	pes? Give an exam of a pair not involv			tropes involving carbon and a	Marks 3
<ul> <li>The following data were obtained for the reaction between gaseous nitric oxide and chlorine at 1400 K.</li> <li>2NO(g) + Cl₂(g) → 2NOCl(g)</li> </ul>					4
EXPERIMENT NUMBER	INITIAL [NO] (mol L <sup>-1</sup> )	$\begin{array}{c} \text{INITIAL } [\text{Cl}_2] \\ (\text{mol } \text{L}^{-1}) \end{array}$		INITIAL REACTION RATE $(\text{mol } L^{-1} \text{ s}^{-1})$	
1	0.10	0.10		0.18	
2	0.10	0.20		0.36	
3	0.20	0.10		0.72	
Deduce the rate law for this reaction and calculate the value of the rate constant.					
RATE LAW			RATE CON	ISTANT	
Answer:			Answer:		