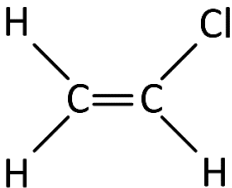


Chemistry 1 a Week Activity Higher Answers		28 th Week
Name: Class:		
Name the following compound.  Chloroethene	State the general formula of an alkane. C_nH_{2n+2} State the general formula of an alkene. C_nH_{2n}	
State the electronic configuration of a potassium atom . $2, 8, 8, 1$ Give the relative mass of an electron. $AQA \ \& \ OCR = \frac{1}{2000} \quad Edexcel = \frac{1}{1835}$	Describe a test to show that a gas is chlorine. Test: moist/ damp blue litmus paper. Result: if the gas is chlorine the <u>damp litmus paper will turn red and will then bleached white.</u>	
What five conditions affect the rate of a reaction? 1. Pressure. 2. Concentration. 3. Temperature. 4. Presence of a catalyst. 5. Surface area.		
What is the activation energy of a reaction? The minimum energy required for a reaction to be successful.	What is an exothermic reaction? A reaction in which more heat is given out than is taken in.	
Calculate the volume of 150 kg of chlorine gas at room temperature and pressure. The volume of one mole of any gas at room temperature and pressure is 24.0 dm^3 Relative formula mass (Mr): $Cl_2 = 71$. Give your answer to three significant figures. $Moles = 150000 \div 71$ $Volume = 2112.67 \times 24$ Volume = 50700 dm³ $Moles = 2112.67$ $Volume = 50704.23 \text{ dm}^3$		
Give the electronic configuration for an ion of Chlorine. $2, 8, 8$	Give the electronic configuration for an atom of Boron. $2, 3$	
The formula of ammonium carbonate is $(NH_4)_2CO_3$. What is the relative formula mass of ammonium carbonate? $relative \ formula \ mass = 2(14) + 8(1) + 12 + 3(16)$ $= 96$		