

Chemistry 1 a Week Activity		Higher	19 th Week
Name:		Class: 	
Explain why chlorine is a gas, rather than a liquid, at a room temperature. 	The amount of heat energy used to raise the temperature of the water by 34.8 °C can be calculated using: <i>heat energy = 210 × temperature rise</i> Calculate the amount of heat energy used. 		
Complete the equation for the reaction below and add state symbols for each substance. Na(.....) + 2H₂O(.....) → NaOH(.....) + H₂(.....)			
Sodium metal tarnishes in air to form a layer of sodium oxide on its surface. 0.92 g of sodium combined with 0.32 g of oxygen in this oxide. Calculate the empirical formula of this sodium oxide. (relative atomic masses: O = 16, Na = 23)			
Give the electronic configuration of Silicon. 		Give the electronic configuration of Neon. 	
Explain, in terms of electronic configurations, the increase in reactivity from lithium to sodium to potassium. 			