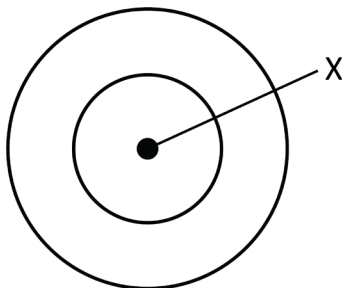
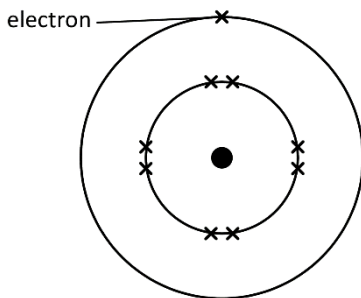


Chemistry 1 a Week Activity		Higher	29 th Week
Name: Class:			
Complete the figure to show the electronic structure of a boron atom. 	The electronic structure of a neon atom shown in the figure below is not correct. 		
What does the central part labelled X represent in the figure above represent? What is the mass and charge of a neutron? 	Explain two things that are wrong with the electronic structure shown. 		
Complete the displayed structure of butane. <pre> H H H — C — C — C — C — H H H H H</pre>	The equation for a reaction is: $\text{N}_2 + 3\text{H}_2 \rightleftharpoons 2\text{NH}_3$ The forward reaction is exothermic, so the reverse reaction is: 		
Calculate the percentage by mass of nitrogen in ammonia, NH₃. 	State the formula of a hydroxide ion. State the formula of a sulfate ion. 		
Complete and balance the equation for a reaction to produce iron from iron oxide. $\text{.....Fe}_2\text{O}_3 + \text{.....C} \rightarrow \text{.....} + \text{.....CO}_2$			
In what states will ionic compounds conduct electricity? 	How do ionic compounds conduct electricity? 		
Explain why CO₂ has a low melting point. 	Give the half equation for the formation of sodium metal at a cathode. 		