

Chemistry 1 a Week Activity		Higher	9 th Week
Name: Class:			
Complete the diagram, using dots and crosses, to show the arrangement of the electrons in a molecule of carbon dioxide. Show only the outer shell electrons. O C O			
State the formula of nitric acid.	What does $\rightleftharpoons$ mean?		
Calculate the mass of MgS that forms when 0.30 g of magnesium reacts completely with sulfur. 			
Name the following compound. <pre> H H H — C — C — O — H H H </pre> 	Explain why carbon dioxide has a low boiling point. 		
The word equation for a reaction is: calcium carbonate + nitric acid → calcium nitrate + carbon dioxide + water Write a balanced chemical equation for the reaction. 			
What ion makes a solution acidic?	Give the electronic configuration of an aluminium atom.		
In what states will ionic compounds conduct electricity? 	Explain, in terms of bonding, why graphite conducts electricity. 		