

Chemistry 1 a Week Activity		Foundation	13 th Week
Name:		Class:	
Describe a test to show that a gas is ammonia. 	Water contains hydrogen and oxygen atoms. The figure below shows them. 1 H 1 8 O 16 How many protons does an oxygen atom have? 		
When burnt completely in air, butene forms carbon dioxide and water. Balance the equation for this reaction by putting numbers in the spaces provided. $\text{C}_4\text{H}_8 + 6\text{O}_2 \rightarrow \dots\dots\dots\text{CO}_2 + \dots\dots\dots\text{H}_2\text{O}$			
Calculate the relative formula mass of calcium carbonate, CaCO_3	Calculate the relative formula mass of butene, C_4H_8		
Calculate the mass of oxygen needed to react 10.0 g of calcium to form calcium oxide. $2\text{Ca} + \text{O}_2 \rightarrow 2\text{CaO}$			
Magnesium burns in excess oxygen to form magnesium oxide. The balanced equation for this reaction is: $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$ Starting with 1.35 g of magnesium, calculate the maximum mass of magnesium oxide that could be formed in this reaction. 			
Give the formula of an ammonium ion. 	Give the formula of a carbonate ion. 		
What element is in period 3 and group 5 of the periodic table?			