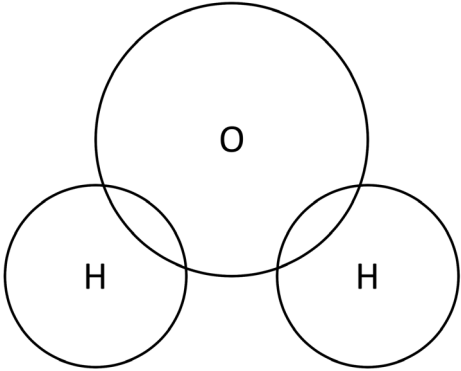


Chemistry 1 a Week Activity		Foundation	42 nd Week
Name:		Class:	
Calculate the percentage by mass of carbon in a molecule of propane (C₃H₈). Give your answer to one decimal place. (Relative atomic masses: C = 12, H = 1) Percentage mass = ...			
Give the general formula for an alkane. 	Give the formula for nitric acid. 		
Complete the figure below to show the arrangement of the outer shell electrons of the hydrogen and oxygen atoms in a molecule of water. Use dots (•) or crosses (x) to represent the electrons.  i. Name the type of bonding in a molecule of water. ii. Why does pure water not conduct electricity? 			
Describe a test to show that a gas is ammonia. 	Describe a test to show if a sample contains bromide ions. 		
Calculate the Mr of K ₂ SO ₄	Give the electronic configuration of a Ca ²⁺ ion. 		
Complete and balance the equations for the reactions that occur by writing the appropriate state symbol after each formula. H₂SO₄(.....) + ...NaOH(.....) → Na₂SO₄(.....) + ...H₂O(.....) C₃H₈(.....) + ...O₂(.....) → CO₂(.....) + ...H₂O(.....)			