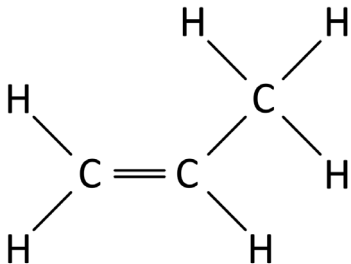
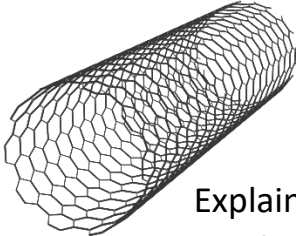


Chemistry 1 a Week Activity		Foundation	3 rd Week
Name:		Class:	
Describe what you would see when sodium hydroxide solution is added to a solution containing iron(III) ions, Fe ³⁺ .	Describe a test to show that a gas is hydrogen.		
.....			
.....			
.....			
.....			
Complete the balanced equation for this reaction.			
CH ₃ COOH + ... → CH ₃ COONa + H ₂ O			
Name the following compound. 	 The figure shows a carbon nanotube. Explain why carbon nanotubes conduct electricity. 		
A compound of sodium has the formula C ₄ H ₅ Na. Calculate the relative formula mass of C ₄ H ₅ Na. Show all your working. 			
Give the general formula of an alkene.	Give the electronic configuration of a calcium atom.		
.....			
Calcium carbonate decomposes on heating to form calcium oxide and carbon dioxide. $\text{CaCO}_3(\text{s}) \rightarrow \text{CaO}(\text{s}) + \text{CO}_2(\text{g})$ 8.000 g of CaCO ₃ was heated strongly for about 10 minutes. 6.213 g of solid remained. Calculate the mass of carbon dioxide gas given off. 			