Concepts	Details				
Hydrocarbons	What is a hydroc	arbon?			
	What is organic chemistry?				
	Prefixes used to indicate the number of carbons in a chain.				
	Number of	Prefix	Number of	Prefix	
	Carbons		Carbons		
	1		6		
	2		7		
	3		8		
	4		9		
	5		10		
			n drawing structura	ıl diagrams.	
	Hydrogen create				
	Oxygen creates two bonds.				
	Nitrogen creates Carbon creates 4				
	Carbon creates 4	bonds.			
Alkanes	A. What is an A	lkane			
	B. Naming Rule	s			
	•				
	Draw the structu	ire for pentane			
	Name the followi	ng hydrocarbo	on		
Alkenes	A. What is an A •	lkene			
	B. Naming Rule •	s			

	• Draw the structure for 2-pentene
	Draw the structure for 2-pentene
	Name the following hydrocarbon
Alkyne	A. What is a Alkyne •
	<ul> <li>B. Naming Rules</li> <li>•</li> </ul>
	•
	Draw the structure for 4-pentyne
	Name the following hydrocarbon
Branched Hydrocarbons	What are branches?
	Rules for naming branches.
	Rules for naming compounds with branches.

	Draw the structure for 2 2 Dimethybutane
	Draw the structure for 2,3-Dimethybutane
	Name the following hydrocarbon
Functional	A. Alcohols
Groups	0 Group
	0 Naming rules
	<b>B. Carboxylic Acids</b> o Group
	0 Naming rules
	C. Ethers o Group
	0 Naming rules
	D. Aldehydes o Group

0 Naming rules
<ul> <li>E. Ketones</li> <li>O Group</li> <li>O Naming rules</li> </ul>
<ul> <li>F. Esters</li> <li>O Group</li> <li>O Naming rules</li> </ul>
Draw the structures of the following compounds, identify what type of chemical they are and name them accordingly. 1-Propanol
Ethyl methyl ether
Butanoic Acid

	Ethanal
	Methyl Ethanoate
	2-Hexanone
Isomers	0
	Draw the structures of the following two isomers. Butane Methyl propane
Combustion Reactions	<ul> <li>For hydrocarbon combustion the products are always carbon dioxide and water.</li> <li>Any reaction that says "burned in air", oxygen needs to be added to the reactants.</li> <li>For compounds other than hydrocarbons, the reaction should be written as a synthesis reaction with oxygen.</li> <li>Correctly write reactants and products and balance.</li> </ul>
	Hexane is burned in air.

	3,3-diethyl octane is burned in air.
Reactions of	Addition Reactions:
Alkenes and Alkynes	
	Halogenation:
	What are the Reactants?
Esterification Reactions	What are the products?
	Example: ethanoic acid and ethanol react:
	Practice: Butanoic acid and methanol react: