

AdAstra

	What ha	ave I done pre	viously in my	y learning jou	ırney?		
Previously	You have learnt pr	eviously about:					
	Mixtures						
		chniques for sep	arating mixture	es: filtration, eva	aporation, dist	illation and	
	chromato Chemical		ling roproconti	ng chomical roa	stions using f	ormulae and us	ina
	• Chemical equations	reactions, includ	ing, representi		actions using it		ing
In this topic	The chemistry of c		ds is so import	ant that it form	ns a separate k	branch of chem	istry. A great
-	variety of carbon of						
	bonds. This branch					-	
	are living, or once-	-	-		se sources inc	lude fossil fuels	s which are a
	major source of fee	-		nuustry.			
We will develop our le	arning by studying the following each lesson:				RAG	Skills in	
							Science checklist
C7.01 Crude Oil and Hy	/drocarbons						
Describe how crude oil is formed.					<ul> <li>Scientific Metho</li> <li>Practical</li> </ul>		
State what is meant by the term hydrocarbon					Number skills		
Represent the first four alkanes using formulae and diagrams					Application     Communication		
C7.02 Fractional Distill							Scientific Metho
<ul> <li>Describe the process of fractional distillation</li> <li>Recall that fractional distillation separates hydrocarbons based on their boiling points.</li> </ul>				Practical			
Recall that fra	ctional distillation se	parates nydroca	rbons based or	i their boiling p	oints.		<ul> <li>Number skills</li> <li>Application</li> </ul>
							Communication
C7.03 Combustion of H	lydrocarbons						
	neant by the term hy						Scientific Metho     Practical
Represent the first four alkanes using formulae and diagrams					Number skills		
<ul> <li>Describe the p</li> </ul>	properties of hydroca	rbons					Application     Communication
C7.04 Cracking							
-	onditions used for ca	talytic cracking	and steam crac	king.			Scientific Metho     Practical
	used for alkenes.	, 0		U			Number skills
Balance chem	ical equations as exa	mples of crackin	ıg.				Application     Communication
	s to illustrate the use	fulness of cracki	ng.				□ Communication
<ul> <li>Give examples</li> </ul>		к	ey Vocabulary		-	-	-
Give examples							
Give examples     Hydrocarbons Alkan	es Boiling point	Fractional distillation	Crude oil	Fractions	Cracking	Alkenes	Bromine

	Future Learning	In A level chemistry there is a building on the content from GCSE in a further topic called organic			
	-	Chemistry'. The study or organic chemistry involves representing organic compounds in diagrams, looking			
		at reactions of organic compounds, building on knowledge of fractional distillation, cracking and			
		combustion of alkanes. New study will involve chlorination of alkanes, halogenoalkanes and ozone			
		depletion.			
In careers Chemists are able to take organic molecules and modify them in many w		Chemists are able to take organic molecules and modify them in many ways to make new and useful			
		materials such as polymers, pharmaceuticals, perfumes and flavourings, dyes and detergents			