

Prior Learning	<ul style="list-style-type: none"> <li>• Particles</li> <li>• Separation techniques</li> <li>• Mixtures</li> <li>• Combustion</li> <li>• C2 covalent bonding</li> </ul>			
Lesson Number	AQA Spec	Title	Content	Assessment/ Homework
1	4.3.1.1	Key concept: Conservation of mass and balanced equations	<ul style="list-style-type: none"> <li>• Explore ideas about the conservation of mass.</li> <li>• Consider what the numbers in equations stand for.</li> <li>• Write balanced symbol equations.</li> </ul>	
2.	4.7.1.1	Crude oil, hydrocarbons and alkanes	<ul style="list-style-type: none"> <li>• Describe why crude oil is a finite resource.</li> <li>• Identify the hydrocarbons in the series of alkanes.</li> <li>• Explain the structure and formulae of the alkanes</li> </ul>	
3	4.7.1.2	Fractional distillation and petrochemicals	<ul style="list-style-type: none"> <li>• Describe how crude oil is used to provide modern materials.</li> <li>• Explain how crude oil is separated by fractional distillation.</li> <li>• Explain why the boiling points of the fractions are different.</li> </ul>	Assessment:  Exam questions on fractional distillation  Assessment: Teacher
4	4.7.1.3	Properties of hydrocarbons	<ul style="list-style-type: none"> <li>• Describe how different hydrocarbon fuels have different properties.</li> <li>• Identify the properties that influence the use of fuels.</li> <li>• Explain how the properties are related to the size of the molecules.</li> </ul>	Assessment:  25-mark quiz  Self-assessed
5	4.7.1.4	Combustion	<ul style="list-style-type: none"> <li>• Describe the process of complete combustion.</li> <li>• Balance equations showing the combustion of hydrocarbons.</li> <li>• Explain the consequences of incomplete combustion.</li> </ul>	

6	4.7.1.5	Cracking and alkenes	<ul style="list-style-type: none"><li>• Describe the usefulness of cracking.</li><li>• Balance chemical equations as examples of cracking.</li><li>• Explain why modern life depends on the uses of hydrocarbons.</li></ul>	
<b>End of Unit test</b>				
<b>Where we will use these ideas again</b>	<ul style="list-style-type: none"><li>• C6 rates</li><li>• C7b (Triple only): functional group reactions, polymerisation</li></ul>			