Unit	Section	Content			
	5.6.1 Rate of Reaction	-Calculating the rate of a reaction			
a		-Calculate the gradient of a tangent to the curve on these graphs as a			
		measure of rate of reaction at a specific time.			
ıng		-Describe collision theory			
cha		-Define activation energy			
al c		-Describe and explain the factors that increase the rate of reaction			
mic		-Describe and explain the effect of catalysts on rate of reaction			
The rate and extent of chemical change	Required Practical 11: investigate	-identify independent, dependent and control variables			
	how concentration affects the rates	-describe how to measure the dependent variable			
	of reaction by a method involving	-analyse results and draw conclusions from graphed data			
	measuring the volume of a gas	-calculate rate of reaction from data			
	produced/change in colour				
and					
te 3	5.6.2 Reversible reactions and	-Identify and give examples of reversible reactions			
r.	dynamic equilibrium	-Apply the conservation of energy to reversible reactions			
-Je		-Define dynamic equilibrium			
		-Describe Le Chatelier's principle			
		-Describe and explain the effect of changing the following conditions			
		on equilibrium; concentration, temperature, pressure			
try	5.7.1 C arbon compounds as fuels	-describe crude oil as a mixture of different length hydrocarbons			
	and feedstock	-define the term hydrocarbon			
mis		-identify the first 4 alkanes from their chemical formula and name			
Organic chemistry		them			
		-Describe the trend in properties as hydrocarbon chain length			
ani		increases Describe and explain the process of fractional distillation			
Org		-Describe and explain the process of fractional distillation -describe the process of cracking			
		-describe the process of cracking -describe the use of alkenes			
	5.8.1 Purity, formulations and	-Define the term pure substance in chemistry			
	chromatography	-Use melting and boiling point data to identify pure and impure			
, <u>v</u>		substances			
lysi		-Define the term formulation and give examples			
ına					
A IE	Required Practical 12: investigate	-Describe the properties of the mixtures that chromatography can be			
Chemical Analysis	how paper chromatography can be	used to separate			
	used to separate and tell the	-Describe and explain the experimental process of chromatography			
	difference between coloured	-Explain how substances are separated using chromatography			
	substances.	-Interpret chromatograms +			
		-Calculate Rf values			
Chemistry of the atmospher	5.9.1 The composition and	-describe the composition of the current atmosphere			
	evolution of the Earth's Atmosphere	-describe the composition of the early atmosphere and explain			
		theories of how the early atmosphere formed			
		-explain how the early atmosphere changed to that of the present			
	F 10 1 Heing the Forth's recovery	atmosphere			
Using resources	5.10.1 Using the Earth's resources	-Describe the renewable and non-renewable resources that we get			
	and obtaining potable water	form the Earth and its atmosphere			
		-Define the term potable water			
		-Describe how potable water can be producedDescribe the differences in the treatment of waste water, salt water			
		and ground water			
		-Describe and evaluate alternative methods of extracting metals e.g.			
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		phytomining and bioleaching			