

Revision for Chemistry: Paper 2 (2022)

For knowledge organisers – see JSTC website: <https://www.jstc.org.uk/science>

Topic title	Brief content overview	Required practical	External Links
C8 Rates and Equilibrium	<ul style="list-style-type: none"> Collision theory Rate and rate profiles Surface area, concentration, temperature and catalysts Reversible reactions Energy and reversible reactions Dynamic equilibrium Altering conditions 	C11 Investigating Rates of reaction	FreeSciencelessons on YouTube : videos 1-11 https://www.youtube.com/playlist?list=PL9IouNCPbCxW8AN0t0py7LaKdKSwfL3fP BBC Bitesize https://www.bbc.co.uk/bitesize/topics/zs3gfcw
C9 Crude Oil and Fuels	<ul style="list-style-type: none"> Hydrocarbons Fractional distillation of crude oil Combustion/burning Cracking hydrocarbons 		FreeSciencelessons on YouTube: videos 1-5 https://www.youtube.com/playlist?list=PL9IouNCPbCxVDcgWiviYYWj0xKMPXTd8s BBC Bitesize https://www.bbc.co.uk/bitesize/topics/ztsyh39
C10 Chemical Analysis	<ul style="list-style-type: none"> Pure substances and formulations Chromatography Gas tests 	C12 Chromatography and Rf values	FreeSciencelessons on YouTube: videos 1-5 https://www.youtube.com/playlist?list=PL9IouNCPbCxXIBeaxebOG5yf_pGrxzOyR BBC Bitesize https://www.bbc.co.uk/bitesize/topics/z2tpmsg
C11 The Earth's Atmosphere	<ul style="list-style-type: none"> History of the atmosphere Atmospheric pollution FOUNDATION ONLY 		FreeSciencelessons on YouTube: video 1,2,6 https://www.youtube.com/playlist?list=PL9IouNCPbCxVv0kvofC7GTUcqhUBddgWL BBC Bitesize https://www.bbc.co.uk/bitesize/topics/zw2xjty

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C12 The Earth's Resources	<ul style="list-style-type: none">• Finite and renewable resources• Water treatment• Sewage treatment• Extracting metals from ores		FreeSciencelessons on YouTube: videos 1-5 https://www.youtube.com/playlist?list=PL9IouNCPbCxVQ-jFybEAnf4D8Naid7gsx BBC Bitesize https://www.bbc.co.uk/bitesize/topics/z9wqk2p
Required Practical – videos 1,2,4			https://www.youtube.com/playlist?list=PL9IouNCPbCxXKTI-z8CR2MOynxfJwB4h- https://www.bbc.co.uk/bitesize/guides/zdnc97h/revision/1