

# Revision for Chemistry: Paper 1 (2022)

FOUNDATION ONLY HIGHER ONLY

Not examined

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

Topic title	Brief content overview	Required practical	External Links
<b>C1 Atomic structure</b>	<ul style="list-style-type: none"> <li>Atomic structure</li> <li>Electronic structure</li> <li>Balancing Equations</li> <li>Ion and Isotopes</li> </ul>		FreeSciencelessons on YouTube :videos 9-11 <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxULWXC09jt0PsuAbxYpw2_1">https://www.youtube.com/playlist?list=PL9louNCPbCxULWXC09jt0PsuAbxYpw2_1</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zcckk2p">https://www.bbc.co.uk/bitesize/topics/zcckk2p</a>
<b>C2 The periodic table</b>	<ul style="list-style-type: none"> <li>History of the Periodic table</li> <li>The Modern Periodic table</li> <li>Group 1 – Alkali Metals</li> <li>Group 7- the Halogens</li> <li>Group 0 – the noble gases</li> </ul>		FreeSciencelessons on YouTube: videos 12-19 <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxULWXC09jt0PsuAbxYpw2_1">https://www.youtube.com/playlist?list=PL9louNCPbCxULWXC09jt0PsuAbxYpw2_1</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zcckk2p">https://www.bbc.co.uk/bitesize/topics/zcckk2p</a>
<b>C3 Structure and bonding</b>	<ul style="list-style-type: none"> <li>Ionic compounds, structures and properties</li> <li>Metallic structures,</li> </ul>		FreeSciencelessons on YouTube: videos 1, 4, 8, 9-11, 12-13 <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxXmFgiKCM60SgIh-qOG_vIE">https://www.youtube.com/playlist?list=PL9louNCPbCxXmFgiKCM60SgIh-qOG_vIE</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/z33rrwx">https://www.bbc.co.uk/bitesize/topics/z33rrwx</a>

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	<ul style="list-style-type: none"> <li>and properties and alloys</li> <li>• Simple covalent molecules</li> <li>• Diamond, graphite</li> <li>• Fullerenes and graphene</li> </ul>		
<b>C4 Quantitative chemistry</b>	<ul style="list-style-type: none"> <li>• Relative masses and the mole</li> <li>• <b>Equations and calculations</b></li> <li>• Concentration</li> </ul>		<p>FreeSciencelessons on YouTube: video 1-16  <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxUhxxFUbr4SNfwmaRB8mYX3">https://www.youtube.com/playlist?list=PL9louNCPbCxUhxxFUbr4SNfwmaRB8mYX3</a></p> <p>BBC Bitesize  <a href="https://www.bbc.co.uk/bitesize/topics/zsnvy4j">https://www.bbc.co.uk/bitesize/topics/zsnvy4j</a></p>
<b>C5 Chemical Changes</b>	<ul style="list-style-type: none"> <li>• Reactivity series</li> <li>• Displacement reactions</li> <li>• Extracting metals</li> <li>• Making Salts from metals and bases</li> <li>• Neutralisation, pH scale</li> <li>• <b>Strong and weak acids</b></li> </ul>	C8 making a dry soluble salt	<p>FreeSciencelessons on YouTube: videos 1-10  <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxXDIRtCQEG0cGehBvJ7t9Pf">https://www.youtube.com/playlist?list=PL9louNCPbCxXDIRtCQEG0cGehBvJ7t9Pf</a></p> <p>BBC Bitesize  <a href="https://www.bbc.co.uk/bitesize/topics/zt6ppbk">https://www.bbc.co.uk/bitesize/topics/zt6ppbk</a></p>
<b>C6 Electrolysis</b>	<ul style="list-style-type: none"> <li>• Electrolysis</li> <li>• Reactions at the electrodes</li> </ul>	C9 Electrolysis	<p>FreeSciencelessons on YouTube: videos 14-18  <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxXDIRtCQEG0cGehBvJ7t9Pf">https://www.youtube.com/playlist?list=PL9louNCPbCxXDIRtCQEG0cGehBvJ7t9Pf</a></p> <p>BBC Bitesize</p>

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	<ul style="list-style-type: none"> <li>Extraction of Al</li> <li>Electrolysis of aqueous solutions</li> </ul>		<a href="https://www.bbc.co.uk/bitesize/topics/zt6ppbk">https://www.bbc.co.uk/bitesize/topics/zt6ppbk</a>
<b>C7 Energy Changes</b>	<ul style="list-style-type: none"> <li>Exothermic and endothermic reactions</li> <li>Uses of exo and endo</li> <li>Reaction profiles</li> <li><b>Bond energy calculations</b></li> </ul>	C10 Temp changes	FreeSciencelessons on YouTube: videos 1-4 <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxX74bPz0TGVVmyGYgMarWu">https://www.youtube.com/playlist?list=PL9louNCPbCxX74bPz0TGVVmyGYgMarWu</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/z27xxfr">https://www.bbc.co.uk/bitesize/topics/z27xxfr</a>
<b>C7 ENERGY CHANGES REQUIRED PRACTICAL – C10 TEMP CHANGES – HIGHER AND FOUNDATION</b>			FreeSciencelessons on YouTube: video 4 <a href="https://www.youtube.com/playlist?list=PL9louNCPbCxX74bPz0TGVVmyGYgMarWu">https://www.youtube.com/playlist?list=PL9louNCPbCxX74bPz0TGVVmyGYgMarWu</a>