

# Revision for Chemistry: Paper 1

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

Topic title	Brief content overview	Required practical	External Links
C1 Atomic structure	<ul style="list-style-type: none"><li>• Atomic structure</li><li>• Electronic structure</li><li>• History of the Atom</li><li>• Separating Mixtures</li><li>• Balancing Equations</li><li>• Ion and Isotopes</li></ul>		FreeSciencelessons on YouTube :videos 1-11  <a href="https://www.youtube.com/playlist?list=PL9IouNCPbCxULWXCO9jt0PsuAbxYpw2_1">https://www.youtube.com/playlist?list=PL9IouNCPbCxULWXCO9jt0PsuAbxYpw2_1</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zcckk2p">https://www.bbc.co.uk/bitesize/topics/zcckk2p</a>
C2 The periodic table	<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=PL9IouNCPbCxULWXCO9jt0PsuAbxYpw2_1">https://www.youtube.com/playlist?list=PL9IouNCPbCxULWXCO9jt0PsuAbxYpw2_1</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zcckk2p">https://www.bbc.co.uk/bitesize/topics/zcckk2p</a>
C3 Structure and bonding	<ul style="list-style-type: none"><li>• Ionic bonding, structures and properties</li><li>• Metallic bonding, structures and properties</li><li>• Covalent bonding – simple covalent molecules</li><li>• Diamond, graphite</li><li>• Fullerenes and graphene</li></ul>		FreeSciencelessons on YouTube: videos 1-13  <a href="https://www.youtube.com/playlist?list=PL9IouNCPbCxXmFgiKCM60Sglh-qOG_vIE">https://www.youtube.com/playlist?list=PL9IouNCPbCxXmFgiKCM60Sglh-qOG_vIE</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/z33rrwx">https://www.bbc.co.uk/bitesize/topics/z33rrwx</a>
C4 Quantitative chemistry	<ul style="list-style-type: none"><li>• Relative masses and the mole</li><li>• <b>Equations and calculations</b></li><li>• Concentration</li></ul>		FreeSciencelessons on YouTube: video 1-16  <a href="https://www.youtube.com/playlist?list=PL9IouNCPbCxUhxxFUbR4SNfwmaRB8mYX3">https://www.youtube.com/playlist?list=PL9IouNCPbCxUhxxFUbR4SNfwmaRB8mYX3</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zsnyy4j">https://www.bbc.co.uk/bitesize/topics/zsnyy4j</a>

# Revision for Chemistry: Paper 1

C5 Chemical Changes	<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	FreeSciencelessons on YouTube: videos 1-10 <a href="https://www.youtube.com/playlist?list=PL9IouNCPbCxXDIRtCQEG0cGehBvJ7t9Pf">https://www.youtube.com/playlist?list=PL9IouNCPbCxXDIRtCQEG0cGehBvJ7t9Pf</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zt6ppbk">https://www.bbc.co.uk/bitesize/topics/zt6ppbk</a>
C6 Electrolysis	<ul style="list-style-type: none"><li>Electrolysis</li><li>Reactions at the electrodes</li><li>Extraction of Al</li><li>Electrolysis of aqueous solutions</li></ul>	C9 Electrolysis	FreeSciencelessons on YouTube: videos 14-18 <a href="https://www.youtube.com/playlist?list=PL9IouNCPbCxXDIRtCQEG0cGehBvJ7t9Pf">https://www.youtube.com/playlist?list=PL9IouNCPbCxXDIRtCQEG0cGehBvJ7t9Pf</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zt6ppbk">https://www.bbc.co.uk/bitesize/topics/zt6ppbk</a>
C7 Energy Changes	<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=PL9IouNCPbCxX74bPfz0TGVVmyGYgMarWu">https://www.youtube.com/playlist?list=PL9IouNCPbCxX74bPfz0TGVVmyGYgMarWu</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/z27xxfr">https://www.bbc.co.uk/bitesize/topics/z27xxfr</a>