

Chemistry 2021-2022

Year 9

https://www.youtube.com/channel/UCqbOeHaAUXw9II7sBVG3_bw

	What is being learnt?	Remote learning links
Autumn 1 (Sep-Oct)	<ul style="list-style-type: none">• C1 Atomic Structure (C1.1,C1.2, C1.5-C1.8)• C2 The Periodic Table (C2.1-C2.5)	<p>https://www.bbc.co.uk/bitesize/guides/zg2h4qt/revision/1 https://www.bbc.co.uk/bitesize/guides/z3sg2nb/revision/1 https://teachers.thenational.academy/units/atomic-structure-and-periodic-table-c831</p> <p>https://www.bbc.co.uk/bitesize/guides/zg923k7/revision/1 https://www.bbc.co.uk/bitesize/guides/zqwtcj6/revision/1 https://teachers.thenational.academy/units/atomic-structure-and-periodic-table-c831</p>
Autumn 2 (Nov-Dec)	<ul style="list-style-type: none">• Continuation of The Periodic Table• C3 Structure and Bonding (C3.1-C3.4)	<p>https://www.bbc.co.uk/bitesize/guides/z93jfcw/revision/1 https://www.bbc.co.uk/bitesize/guides/zyydng8/revision/1 https://teachers.thenational.academy/units/bonding-structure-and-the-properties-of-matter-e93f</p>

Winter 3 (Jan-Feb)	<p>Continuation of Term 2</p> <ul style="list-style-type: none"> • Ionic Bonding (C3.1-3.4) • Metallic Bonding (C3.9-3.10) 	<p>https://teachers.thenational.academy/units/bonding-structure-and-the-properties-of-matter-e93f</p> <p>https://www.bbc.co.uk/bitesize/guides/zyydng8/revision/1</p> <p>https://www.bbc.co.uk/bitesize/guides/z8db7p3/revision/1</p>
Spring 4 (Feb-Mar)	<ul style="list-style-type: none"> • Continuation of Term 3 • Covalent Bonding (C3.5-3.8) 	<p>https://teachers.thenational.academy/units/bonding-structure-and-the-properties-of-matter-e93f</p> <p>https://www.bbc.co.uk/bitesize/guides/zcpjfcw/revision/1</p> <p>https://www.bbc.co.uk/bitesize/guides/z9twsrd/revision/1</p>
Summer 5 (Apr-May)	<ul style="list-style-type: none"> • Chemical changes C5 	<p>https://teachers.thenational.academy/units/chemical-changes-a5ba</p> <p>https://www.bbc.co.uk/bitesize/guides/zsm7v9q/revision/1</p> <p>https://www.bbc.co.uk/bitesize/guides/zcjfcw/revision/1</p>
Summer 6 (Jun-Jul)	<ul style="list-style-type: none"> • Earth's Resources C12 	<p>https://classroom.thenational.academy/lessons/finite-resources-6xh6ac</p> <p>https://classroom.thenational.academy/lessons/life-cycle-assessments-6dhkae</p>

		https://classroom.thenational.academy/lessons/phytomining-and-bioleaching-70tp4c https://www.bbc.co.uk/bitesize/guides/zgqhcj6/revision/2 https://www.bbc.co.uk/bitesize/guides/z96ydxs/revision/1
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Year 10

https://www.youtube.com/channel/UCqbOeHaAUXw9II7sBVG3_bw

	What is being learnt?	Remote learning links
Autumn 1 (Sep-Oct)	<ul style="list-style-type: none"> • Earth's Resources (Trilogy Book C4.1-C12.3) (Chemistry Book C14.1-C14.3) • Rates and Equilibria C8.1-8.9 	https://www.bbc.co.uk/bitesize/guides/zpcjsrd/revision/1 https://teachers.thenational.academy/lessons/water-safe-to-drink-60r3gc https://teachers.thenational.academy/lessons/required-practical-on-potable-water-6ngkjd https://teachers.thenational.academy/lessons/wastewater-treatment-cmup4e https://www.bbc.co.uk/bitesize/guides/z3nbqhv/revision/1 https://teachers.thenational.academy/units/the-rate-and-extent-of-chemical-change-0530 https://www.bbc.co.uk/bitesize/guides/zyhvw6f/revision/1

<p>Autumn 2 (Nov-Dec)</p>	<ul style="list-style-type: none"> • Electrolysis 6.1-6.4 • C4 Chemical Calculations (Trilogy Book C4.1-C4,4) (Chemistry Book C4.1-C4.3, C4.6) 	<p>https://www.bbc.co.uk/bitesize/guides/zcsyw6f/revision/1 https://teachers.thenational.academy/lessons/electrolysis-of-molten-compounds-cgw66t https://teachers.thenational.academy/lessons/extraction-of-aluminium-68w38r https://teachers.thenational.academy/lessons/electrolysis-of-solutions-cmv3ge https://teachers.thenational.academy/lessons/electrolysis-half-equations-c8r6ar https://teachers.thenational.academy/lessons/electrolysis-review-c4w38r</p> <p>https://www.bbc.co.uk/bitesize/guides/zgcyw6f/revision/1 https://www.bbc.co.uk/bitesize/guides/z3kg2nb/revision/1 https://teachers.thenational.academy/units/quantitative-chemistry-4db7</p>
<p>Winter 3 (Jan-Feb)</p>	<ul style="list-style-type: none"> • Continuation of C4 Calculations • C9 Crude Oil 	<p>https://www.bbc.co.uk/bitesize/guides/zshvw6f/revision/1 https://teachers.thenational.academy/units/organic-chemistry-7c58</p>

Spring 4 (Feb-Mar)	<ul style="list-style-type: none"> • Continuation of C9 Crude Oil 	
Summer 5 (Apr-May)	<ul style="list-style-type: none"> • Atmosphere (Trilogy Book C11) (Chemistry Book C13) • 	https://teachers.thenational.academy/units/chemistry-of-the-atmosphere-522e https://www.bbc.co.uk/bitesize/topics/zw2xjty
Summer 6 (Jun-Jul)	<ul style="list-style-type: none"> • C7 Energy Changes 	https://www.bbc.co.uk/bitesize/guides/zwfr2nb/revision/1 https://teachers.thenational.academy/units/energy-changes-b607

Year 11 (Separate Award)

Use of Science Workbook

https://www.youtube.com/channel/UCqbOeHaAUXw9II7sBVG3_bw

	What is being learnt?	Remote learning links
Autumn 1 (Sep-Oct)	<ul style="list-style-type: none">• C15 Using Our Resources C15 (C15.5-15.8)• C12 Analysis	<p>https://www.bbc.co.uk/bitesize/guides/z9tvw6f/revision/1 https://teachers.thenational.academy/lessons/making-ammonia-and-the-haber-process-70rkat https://teachers.thenational.academy/lessons/the-economics-of-the-haber-process-74r32d</p> <p>https://teachers.thenational.academy/units/quantitative-chemistry-4db7 https://www.bbc.co.uk/bitesize/guides/z8wkh39/revision/1 https://www.bbc.co.uk/bitesize/guides/zx98pbk/revision/1</p> <p>https://www.bbc.co.uk/bitesize/guides/zqqtrwx/revision/1 https://teachers.thenational.academy/units/chemical-analysis-cf8d https://www.bbc.co.uk/bitesize/guides/zxtvw6f/revision/1 https://classroom.thenational.academy/lessons/identifying-positive-ions-75j3ce</p>

	<ul style="list-style-type: none"> • C3 Chemical Calculations C4.4, 4.5, 4.7-4.9 	https://teachers.thenational.academy/lessons/testing-for-negative-ions-cdk64c https://teachers.thenational.academy/units/quantitative-chemistry-4db7 https://www.bbc.co.uk/bitesize/guides/z8wkh39/revision/1 https://www.bbc.co.uk/bitesize/guides/zx98pbk/revision/1
Autumn 2 (Nov-Dec)	<ul style="list-style-type: none"> • Continuation of Chemical Calculations • C7 Energy Changes (C7.5-7.6) 	https://teachers.thenational.academy/lessons/fuel-cells-cguk4d https://www.bbc.co.uk/bitesize/guides/z2396yc/revision/1
Winter 3 (Jan-Feb)	<ul style="list-style-type: none"> • C10 Organic Chemistry 	https://teachers.thenational.academy/lessons/alcohols-69j3jc https://teachers.thenational.academy/lessons/properties-and-combustion-of-alcohols-crwkad https://teachers.thenational.academy/lessons/carboxylic-acids-c8u62t https://www.bbc.co.uk/bitesize/guides/z3v4xfr/revision/1

	<ul style="list-style-type: none"> • C11 Polymers 	<p>https://teachers.thenational.academy/lessons/natural-and-addition-polymers-c8t3et https://teachers.thenational.academy/lessons/condensation-polymers-70rkgd https://www.bbc.co.uk/bitesize/guides/z3v4xfr/revision/6</p> <p>https://teachers.thenational.academy/units/chemical-changes-a5ba https://www.bbc.co.uk/bitesize/guides/zcsyw6f/revision/1</p>
<p>Spring 4 (Feb-Mar)</p>	<ul style="list-style-type: none"> • Revision • C5 Chemical Changes • C13 The Earth's Atmosphere • C14 The Earth's Resources 	<p>https://www.bbc.co.uk/bitesize/guides/zsm7v9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zcijfcw/revision/1 https://teachers.thenational.academy/units/chemical-changes-a5ba</p> <p>https://www.bbc.co.uk/bitesize/topics/zw2xjty</p> <p>https://www.bbc.co.uk/bitesize/guides/zgqhcj6/revision/2 https://www.bbc.co.uk/bitesize/guides/z96ydxs/revision/1</p>

Year 11 (Combined Sciences)

Use of Science Workbook

https://www.youtube.com/channel/UCqbOeHaAUXw9II7sBVG3_bw

	What is being learnt?	Remote learning links
Autumn 1 (Sep-Oct)	<ul style="list-style-type: none">• C12 Analysis• Revision Chemical Changes C5	<p>https://www.bbc.co.uk/bitesize/guides/zqqtrwx/revision/1 https://teachers.thenational.academy/units/chemical-analysis-cf8d</p> <p>https://www.bbc.co.uk/bitesize/guides/zsm7v9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zcjfcw/revision/1 https://teachers.thenational.academy/units/chemical-changes-a5ba</p>
Autumn 2 (Nov-Dec)	<ul style="list-style-type: none">• C13 The Earth's Atmosphere• C14 The Earth's Resources	<p>https://www.bbc.co.uk/bitesize/topics/zw2xjty</p> <p>https://www.bbc.co.uk/bitesize/guides/zgqhcj6/revision/2 https://www.bbc.co.uk/bitesize/guides/z96ydxs/revision/1</p>

Winter 3 (Jan- Feb)	Revision of Early Units C1-3	See Teams for Revision Sheets Use of Science Workbook
Spring 4 (Feb- Mar)	Revision of Early Units C5,8,9,10	

Year 12

Use of Fact Sheets on Teams for **Extra** Notes

	What is being learnt?	Remote learning links
Autumn 1 (Sep-Oct)	<ul style="list-style-type: none">• Module 2 Structure and Bonding 2.2.1-2.12, 2.1.18- 2.1.19, 3.1.3-3.1.6• Module 2 Atoms and Reactions 2.1.1-2.1.17	
Autumn 2 (Nov-Dec)	<ul style="list-style-type: none">• Continuation of Term 1• Module 3 The Periodic Table 3.1.1-3.1.2, 3.1.7- 3.1.11• Module 4 Organic 1 4.1.1-4.1.11	Videos: MAChemGuy / Khan Academy Notes: Fact Sheets (Teams) / Chem Guide / Doc Brown Questions: Physics and Maths Tutor
	<ul style="list-style-type: none">• Continuation of Term 2• Module 3	

<p>Winter 3 (Jan-Feb)</p>	<p>Physical Chemistry 3.2.1-3.2.5</p> <ul style="list-style-type: none"> • Module 4 Organic 1 4.2.1-4.2.5 	<p>Videos: MAChemGuy / Khan Academy Notes: Fact Sheets (Teams) / Chem Guide / Doc Brown Questions: Physics and Maths Tutor</p>
<p>Spring 4 (Feb-Mar)</p>	<ul style="list-style-type: none"> • Continuation of Term 3 • Module 3 Physical Chemistry 3.2.6-3.2.12 • Module 4 Organic 2 4.2.6-4.2.12 	
<p>Summer 6 (Jun-Jul)</p>	<p>Y13 Book</p> <ul style="list-style-type: none"> • Module 5 Physical Chemistry 5.1.1-5.1.5 5.1.6 • Module 6 Organic Chemistry 6.1.7-6.1.11 	

Year 13

Use Fact Sheets on Teams for Extra Notes

	What is being learnt?	Remote learning links
Autumn 1 (Sep-Oct)	<ul style="list-style-type: none">• Module 5 pH 5.1.9-5.1.14• Module 6 Nitrogen, Polymers and Synthesis 6.2.1-6.2.11	
Autumn 2 (Nov-Dec)	<ul style="list-style-type: none">• Continuation of Term 1• Module 5 Energy / Entropy 5.2.1-5.2.6	Videos: MAChemGuy / Khan Academy Notes: Fact Sheets (Teams) / Chem Guide / Doc Brown
		Questions: Physics and Maths Tutor

<p>Winter 3 (Jan-Feb)</p>	<ul style="list-style-type: none">• Module 5 Standard Electrode Potentials 5.2.9-5.10• Transition Metals 5.3.1-5.3.6• Module 6 Analysis 6.3.1-6.3.2	<p>Videos: MAChemGuy / Khan Academy Notes: Fact Sheets (Teams) / Chem Guide / Doc Brown Questions: Physics and Maths Tutor</p>
<p>Spring 4 (Feb-Mar)</p>	<ul style="list-style-type: none">• Redox / Transition Metals 5.2.7-5.2.8 / 5.3.7• Revision	