

Chemistry Curriculum and Assessment Map

| | Term | Date | Week | Year 7 | Year 8 | Year 9 | Year 10 | Year 11 |
|----------|--------|--------|------|--------------------------------------|--------------------------------------|--------------------------------------|---|---|
| Autumn A | | 05-Sep | 1 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | Atomic Structure and Periodic Table which includes: History of the atom, development of the periodic table, formation of covalent and ionic bonds, balancing chemical equations, group 1 and group 7 trends. Atomic structure and Periodic Table assessment | Rates of Reaction including: factors and procedures for measuring the rate of a reaction, dynamic equilibrium, interpreting graphs and calculating gradients. Rates of Reaction assessment Revision for mock exams |
| | | 12-Sep | 2 | | | | | |
| | | 19-Sep | 1 | | | | | |
| | | 26-Sep | 2 | | | | | |
| | | 03-Oct | 1 | | | | | |
| | | 10-Oct | 2 | | | | | |
| | | 17-Oct | 1 | | | | | |
| 24-Oct | | | | October Half-Term | October Half-Term | October Half-Term | October Half-Term | October Half-Term |
| Autumn B | | 31-Oct | 2 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | Structure and Bonding including: ionic bonding, covalent bonding, simple and giant covalent structures, metallic bonding, alloys, carbon allotropes, nanotechnology Structure and Bonding Assessment | Revision for mock exams Mock Exams Crude oil and fuel including: properties of alkanes, alkenes and distillation of crude oil. Crude oil and fuel assessment |
| | | 07-Nov | 1 | | | | | |
| | | 14-Nov | 2 | | | | | |
| | | 21-Nov | 1 | | | | | |
| | | 28-Nov | 2 | | | | | |
| | | 05-Dec | 1 | | | | | |
| | | 12-Dec | 2 | | | | | |
| | 19-Dec | 1 | | | | | | |
| 26-Dec | | | | Christmas Break | Christmas Break | Christmas Break | Christmas Break | Christmas Break |
| Spring A | | 02-Jan | 1 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | See Combined Science | Chemical Calculations including: calculating relative atomic mass, moles and concentration. Reacting masses, atom economy, yields and titrations Chemical Calculations Assessment | Organic Reactions and Polymers including: esters, alcohols, carboxylic acids, addition and condensation polymerisation Organic Reaction and Polymer Assessment |
| | | 09-Jan | 2 | | | | | |
| | | 16-Jan | 1 | | | | | |
| | | 23-Jan | 2 | | | | | |
| | | 30-Jan | 1 | | | | | |
| | 06-Feb | 2 | | | | | | |
| 13-Feb | | | | February Half-term | February Half-term | February Half-term | February Half-term | February Half-term |
| Spring B | | 20-Feb | 1 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | See Combined Science | Chemical Changes including: Reactions of metals with acids, reactivity series, procedure for making salts, neutralisation reactions, strong and weak acids (higher tier only) Chemical Changes Assessment | Chemical Analysis including: Tests for gases, chromatography, formulations Assessment: Data Analysis. Using or resources including: The Haber process, alloys, protecting metals, making fertilisers |
| | | 27-Feb | 2 | | | | | |
| | | 06-Mar | 1 | | | | | |
| | | 13-Mar | 2 | | | | | |
| | | 20-Mar | 1 | | | | | |
| | 27-Mar | 2 | | | | | | |
| 03-Apr | | | | Easter Break | Easter Break | Easter Break | Easter Break | Easter Break |
| 10-Apr | | | | Easter Break | Easter Break | Easter Break | Easter Break | Easter Break |
| Summer A | | 17-Apr | 1 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | See Combined Science | Year 10 Exams Electrolysis including: Products of electrolysis and solutions, electrolysis of aluminium | Using or resources including: The Haber process, alloys, protecting metals, making fertilisers |
| | | 24-Apr | 2 | | | | | |
| | | 01-May | 1 | | | | | |
| | | 08-May | 2 | | | | | |
| | | 15-May | 1 | | | | | |
| | 22-May | 2 | | | | | | |
| 29-May | | | | May Half-term | May Half-term | May Half-term | May Half-term | May Half-term |
| Summer B | | 05-Jun | 0 | See Combined Science for Key Stage 3 | See Combined Science for Key Stage 3 | See Combined Science | Energy Changes including: Exothermic and endothermic reactions, investigating temperature changes and calculating bond energies, chemical cells and fuel cells Electrolysis and Energy Changes Assessment | External Exams External Exams |
| | | 12-Jun | 1 | | | | | |
| | | 19-Jun | 2 | | | | | |
| | | 26-Jun | 1 | | | | | |
| | | 03-Jul | 2 | | | | | |
| | | 10-Jul | 1 | | | | | |
| | 17-Jul | 2 | | | | | | |