Chemistry Curriculum Outline KS5 2023-24

Year 12

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| Half term | Teacher 1 | Teacher 2 |
| 1 | 3.1.1 Atomic Structure  Required practical 1: Research | 3.1.2 Amount of substance  Required practical 1: Titrations |
| Assessments: | Mini test; topic test | Mini test; topic test |
| 2 | 3.1.3 Bonding  3.2.1 Periodicity | 3.3.1 Introduction to organic  3.3.2 Alkanes |
| Assessments: | Mini test; topic test | Combined topic test |
| 3 | 3.1.4 Energetics  Required practical 2: Calorimetry  3.1.5 Kinetics  Required practical 3: Rates | 3.3 Haloalkanes  3.4 Alkenes  Required practical 5: Distillation |
| Assessments: | Old unit 1 mock; Combined topic test | Alkenes/ haloalkanes test |
| 4 | 3.1.6 Equilibria | 3.3.5 Alcohols  3.3.6 Organic analysis  Required practical 5 organic tests |
| Assessments: | Old unit 2 mock; Rates & equil. test | Alcohols test |
| 5 | 3.1.7 Redox | 3.2.2 Group 2  3.2.7 Group 7  Required practical 4 Testing for ions |
| Assessments: | Self assessed topic tests  AS mock exams |  |
| 6 | Year 13:  3.1.9 Rate equations (up to  Required practical 7: | Year 13:  3.3.10 Aromatics |
|  | All required practicals assessed |  |

Year 13

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| Half term | Teacher 1 | Teacher 2 |
| 1 | 3.1.10 Acids & Bases  Required practical 9: Investigating pH | 3.3.7 Optical isomerism  3.3.8 Aldehydes/ Ketones  3.3.9 Carboxylic acids  3.3.11 Amines  Required practical 10: Organic prep. |
| Assessments: | Paper 1 mock. Topic test: rates, Mini test: Acids & Bases | Topic test: Carbonyls/ aromatics  Topic test: amines |
| 2 | 3.1.8 Thermodynamics | 3.3.12 Polymers  3.3.13 Proteins & DNA  3.3.14 Organic synthesis  3.3.15 NMR  3.3.16 Chromatography  Required practical 12: TLC |
| Assessments: | Topic test pH  Old unit 1 mock | Topic test: Amino acids etc  Old unit 2 mock |
| 3 | 3.1.11 Electrode potentials | 3.2.4 Period 3  3.2.5 Transition metals |
| Assessments: | Old module 4 mock  Topic test: thermodynamics | Paper 2 mock  Topic test T.M. |
| 4 | Finish 3.1.11 Electrode Potentials  Required practical 8: emf | 3.2.6 Aqueous ions  Required practical 11: TM ions |
| Assessments: | Topic test: Electrode Potentials  Mock: paper 1 | Topic test: Aq ions  Mock: paper 3 (if time) |
| 5 | Review & practice | Review & practice |