

Year 10 COMBINED Science - Chemistry Name:

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| Sept - Oct | <ul style="list-style-type: none">• Elements and the periodic table• Electron arrangements• Ions / ionic bonding• Covalent bonding |
| Nov - Dec | <ul style="list-style-type: none">• Allotropes of carbon – diamond / graphite / fullerenes / graphene• Metallic bonding• Bonding models (ionic, covalent, metallic) Acids and indicators• Concentration of acids• Bases and salts |
| Jan - Feb | <ul style="list-style-type: none">• Core practical 3• Neutralisation• Titration Core practical 2 |
| Feb - March | <ul style="list-style-type: none">• Making soluble salts• Making insoluble salts• Mass calculations (relative mass -M_r)• Empirical formula• Conservation of mass• Mole calculations |
| April - May | <ul style="list-style-type: none">• Reactivity of metals• Displacement reactions• Extracting metals• Corrosion and oxidation• Recycling metals (life cycle assessments)• Electrolysis of copper sulphate Core practical 4 |
| June – July | <ul style="list-style-type: none">• Products from electrolysis• Reversible reactions• Group 1 – Alkali metals• Group 7 – Halogens• Group 0 – Noble gases |
| Test 1 – (Bonding) Test 2 – (Acids and calculations) Test 3 (Metals & Electrolytic processes) | |
| YEAR 10 EXAM | |

| Year 11 Chemistry Combined | | Name: |
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| Sept - Oct | <ul style="list-style-type: none"> • Products from electrolysis • Group 1 - Alkali metals • Group 7 – Halogens | Core Practical 4 |
| Nov - Dec | <ul style="list-style-type: none"> • Group 0 – Noble gases • Exothermic and endothermic reactions • Energy profile diagrams • Hydrocarbons in crude oil • Fractional distillation of crude oil | |
| Jan - Feb | <ul style="list-style-type: none"> • Alkanes • Cracking & Alkenes • Combustion | |
| Feb - March | <ul style="list-style-type: none"> • Early atmosphere • Atmosphere today • Climate change | |
| April - May | <ul style="list-style-type: none"> • Revision of Core Practicals | |
| Test 1 – (Metals & Electrolytic processes) | | |
| Test 2 – (Groups and heat energy changes in chemical reactions) | | |
| Test 3 – (Fuels and Earth & atmospheric science) | | |
| Exam 1 | | Exam 2 |