Combined Science – Chemistry

| Торіс | Done in Class | RAG | Revised | RAG |
|--|-----------------------|--------|---------|-----|
| • | mic Structure – Pape | r 1 | | |
| Atoms | | .1 - | | |
| Chemical Equations | | | | |
| Separating Mixtures | | | | |
| Fractional Distillation and Paper | | | | |
| Chromatography | | | | |
| History of the Atom | | | | |
| Structure of the Atom | | | | |
| Iona, Atoms and Isotopes | | | | |
| Electronic Structures | | | | |
| | Periodic Table – Pap | er 1 | | |
| Development of the Periodic Table | | | | |
| Electronic Structures and the Periodic Table | | | | |
| Group 1 – The Alkali Metals | | | | |
| Group 7 – The Halogens | | | | |
| Explaining Trends | | | | |
| | ure and Bonding – Pa | apor 1 | | |
| States of Matter | lie and bonding – Pa | арегт | | |
| | | | | |
| Atoms into lons | | | | |
| Ionic Bonding Giant Ionic Structures | | | | |
| | | | | |
| Covalent Bonding | | | | |
| Structure of simple Molecules | | | | |
| Giant Covalent Structures | | | | |
| Fullerenes and Graphene | | | | |
| Bonding in Metals | | | | |
| Giant Metallic Structures | | | | |
| | cal Calculations – Pa | iper 1 | | |
| Relative Masses and Moles | | | | |
| Equations and Calculations (HT) | | | | |
| From Masses to Balanced Equations (HT) | | 4 | | |
| | nical Changes – Pap | er1 | | |
| The Reactivity Series | | | | |
| Displacement Reactions | | | | |
| Extracting Metals | | | | |
| Salts from Metals | | | | |
| Salts from Insoluble Bases | | | | |
| Making More Salts | | | | |
| Neutralisation and the pH Scale | | | | |
| Strong and Weak Acids (HT) | | | | |
| | lectrolysis – Paper 1 | | 1 1 | |
| Electrolysis Basics | | | | |
| Changes at the Electrodes | | | | |
| The Extraction of Aluminium | | | | |
| Electrolysis of Aqueous Solutions | | | | |
| | ergy Changes – Paper | 1 | 1 1 | |
| Exothermic and Endo thermic Reactions | | | | |
| Using Energy Transfers from Reactions | | | | |
| Reaction Profiles | | | | |
| Bond Energy Calculations (HT) | | | | |

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|--|-----------------------|------------|---------|-----|--|--|--|
| C8 Rates and Equilibrium – Paper 2 | | | | | | | |
| Rate of Reaction | | | | | | | |
| Collision Theory and Surface Area | | | | | | | |
| The Effect of Temperature | | | | | | | |
| The effect of Concentration and Pressure | | | | | | | |
| The Effect of Catalysts | | | | | | | |
| Reversible Reactions | | | | | | | |
| Energy and Reversible Reactions | | | | | | | |
| Dynamic Equilibrium | | | | | | | |
| Altering Conditions (HT) | | | | | | | |
| C9 Crude Oil and Fuels – Paper 2 | | | | | | | |
| Hydrocarbons | | | | | | | |
| Fractional Distillation of Oil | | | | | | | |
| Burning Hydrocarbon Fuels | | | | | | | |
| Cracking Hydrocarbons | | | | | | | |
| C10 Organic | reaction – Paper 2 T | riple only | | | | | |
| C11 Polymers – Paper 2 Triple only | | | | | | | |
| C12 Ch | emical Analysis – Par | per 2 | - | | | | |
| Pure Substances, Mixtures and | | | | | | | |
| Formulations | | | | | | | |
| Analysing Chromatograms | | | | | | | |
| Testing for Gases | | | | | | | |
| C13 The Earth's Atmosphere – Paper 2 | | | | | | | |
| History of Our Atmosphere | | | | | | | |
| Our Evolving Atmosphere | | | | | | | |
| Greenhouse Gases | | | | | | | |
| Global Climate Change | | | | | | | |
| Atmospheric Pollutants | | | | | | | |
| C14 The Earth's Resources – Paper 2 | | | | | | | |
| Finite and Renewable Resources | | | | | | | |
| Water Safe to Drink | | | | | | | |
| Treating Waste Water | | | | | | | |
| Extracting Metals from Ores (HT) | | | | | | | |
| Life Cycle Assessments | | | | | | | |
| Reduce, Reuse, Recycle | | | | | | | |

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| Required practicals paper 1 | | | | | | |
| Making salts (chemical changes) | | | | | | |
| Electrolysis (electrolysis) | | | | | | |
| Temperature Changes (energy changes) | | | | | | |
| Required practicals paper 2 | | | | | | |
| Rates of reaction (rates and equilibrium) | | | | | | |
| Chromatography (chemical analysis) | | | | | | |
| Water purification (the Earth's resources) | | | | | | |