YEAR 7 CHEMISTRY

|  |  |
| --- | --- |
| Matter | Particles, States of matter, Diffusion, Separating methods, Solutions |
| Reactions | Chemical & Physical Changes, Acids & Alkalis, pH, Neutralisation, Reactions of Metals, Displacement |
| Energy | Changing state |
| Earth |  |

YEAR 8 CHEMISTRY

|  |  |
| --- | --- |
| Matter | Elements/Compounds/Mixtures, Chemical Formulae, Periodic Table |
| Reactions | Conservation of mass, Combustion, Thermal Decomposition |
| Energy | Exothermic & Endothermic |
| Earth | Earth Structure, Rock Cycle, Space, The Atmosphere |

YEAR 9 CHEMISTRY

|  |  |
| --- | --- |
| Matter | Atomic Structure, Periodic Table, Elements/Compounds/Mixtures, Structure & Bonding |
| Reactions | Group 1 & Group 7 trends, Reactivity Series, Displacement reactions |
| Energy | Trends in melting/boiling points, How bonding links to properties |
| Earth | Metal Extraction, Allotropes of Carbon |

YEAR 10 CHEMISTRY

|  |  |
| --- | --- |
| Matter | Quantitative Chemistry, Moles, Solutions, Measuring gas volumes |
| Reactions | pH Scale, Neutralisation and making salts, Electrolysis, Collision theory, Conservation of mass, Titration, Rates of reaction, Dynamic Equilibrium |
| Energy | Chemical Cells, Endothermic & Exothermic reactions, Catalysis |
| Earth | Metal extraction |

YEAR 11 CHEMISTRY

|  |  |
| --- | --- |
| Matter | Hydrocarbons, Fractional Distillation, Chromatography, Polymers, Formulations |
| Reactions | Gas tests, Reactions of organic compounds, Ion identification, Haber process |
| Energy | Spectroscopy, Trends in hydrocarbon properties |
| Earth | Crude Oil, Potable water, Metal Extraction |