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DETAILED  
CURRICULUM  
INFORMATION.

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## Atoms & Periodic Table

Students will study:  
atoms, elements, compounds and mixtures, using and understanding the parts of the periodic table.

## Chemical Reactions

Students will study:  
knowing how a reaction has taken place, acid, alkali and neutralisation and factors that affect reactions.

## Reactions of Metals

Students will study:  
reactions of metals and acids as well as carbonates and acids.

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## Chemical Reactions

Students will study:  
energy, energy changes, reversible reactions, food combustion, respiration, complete and incomplete combustion.

## Reactivity series

Students will study:  
reactivity series, extracting metals and voltaic cells.

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## Atomic Structure

Students will study:  
elements, compounds and mixtures, formulae, development of the atom, periodic table, electron configuration, developing the periodic table, metals and non-metals, groups 1, 7 and 0 and transition metals.

## Structure & Bonding

Students will study:  
types of chemical bonds, ionic bonds, covalent bonds, states of matter, polymers, metals and alloy and nanoparticles.

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## Quantitative Chemistry and Chemical Changes

Students will study:  
conservation of mass, moles (higher tier only), concentration of solutions, percentage yield, atom economy, reactivity series, displacement reactions, metal oxides, extraction of metals, OilRiG, neutralisation, soluble salts, electrolysis.  
Additional triple content is: citation.

## Energy Changes and Rate of Reaction

Students will study:  
endothermic and exothermic reactions, energy profiles,  
Additional triple content is: cells and batteries, fuel cells, rate of reaction, factors affecting rate of reactions, catalysts, reversible reactions and equilibrium.

## Chemistry in the Atmosphere and Hydrocarbons

Students will study:  
gases in the atmosphere, the greenhouse gases, global climate change, carbon foot print, crude oil, hydrocarbons, alkanes, alkenes. and cracking.  
Additional triple only content is: Alcohol, Carboxylic acids, Polymerisation.

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## Chemical Analysis and Sustainable Development

Students will study:  
purity, formulations, chromatography required practical, gas tests, potable water and the required practical, wastewater treatments, alternative methods of extraction, life cycle assessment and recycling. Additional triple only content is: flame tests, metal hydroxides, test for anions, test for ions, required practical, instrumental methods of analysis, corrosion and prevention, alloys, ceramics, polymers and composite, haber process and Fertiliser production.

## Revision

Students will study:  
recap Paper 1 and 2 topics and exam question practice.

## Revision

Students will study:  
final preparation for the Summer Exams.