

	Topic title
Year 9	
1	Atomic Structure
2	The Periodic Table
3	Chemical changes - Metals
4	Organic Chemistry
5	Chemistry of the Atmosphere
6	Chemical Analysis
Year 10	
1	Structure and Bonding
2	Quantitative Chemistry
3	Chemical Changes
4	Energy Changes
5	Revision for mocks, year 9 recap, mock week
6	Rates of Reaction
7	Chemical Analysis
8	Using Resources
5	Revision for mocks, year 9 recap, mock week
Year 11	
1	Atomic Structure
2	The Periodic Table
3	Structure and Bonding
4	Quantitative Chemistry
5	Chemical Changes
6	Energy Changes
7	Rates of Reaction
8	Organic Chemistry
9	Chemistry of the Atmosphere

10	Chemical Analysis
11	Using Resources
12	Revision

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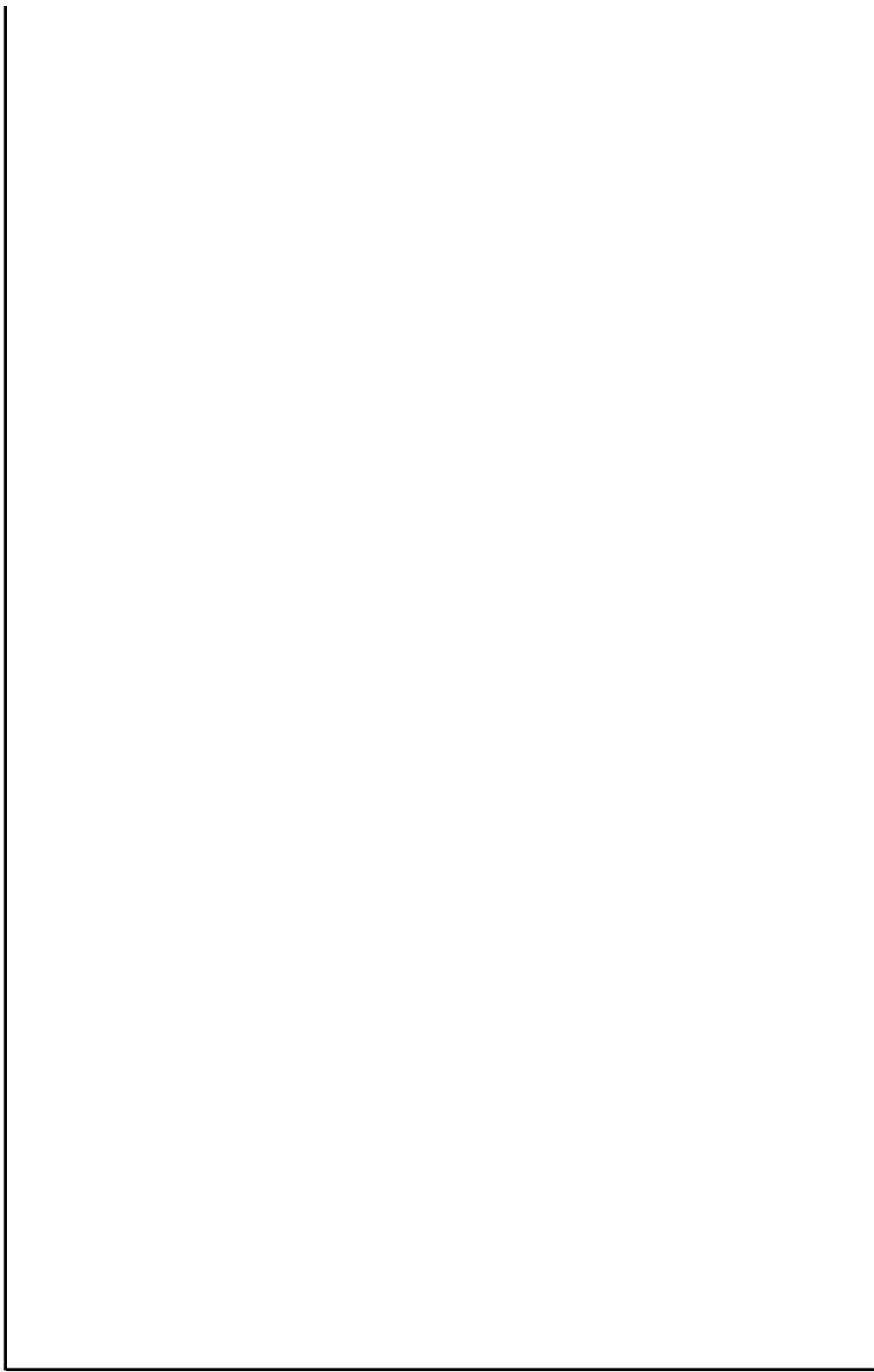
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SUMMARY OF KNOWLEDGE ACQUISITION

Atoms, elements, compounds, mixtures, separating mixtures, purifying sea water the atomic
 History of the Periodic Table, the modern Periodic Table, trends and patterns in Group 1
 Metal oxides, the reactivity series, extraction of metals and reduction using carbon, displacement
 Crude oil, fractional distillation, properties of hydrocarbons, cracking, alkenes
 Composition of the atmosphere, evolution of the atmosphere, combustion, pollutants
 Testing for common gases, mixtures, formulations and chromatography

Structure of the atom recap, forming ions, giant ionic compounds, covalent bonding, simple and
 Atomic mass, relative formula mass, moles, balancing equations, reacting masses, limiting reagent
 Neutralisation and electrolysis
 Exothermic and endothermic reactions, reaction profiles and examples, temperature changes
 Revision of year 9 content and preparation for mock exams
 The rate of reaction, collision theory, factors affecting rate of reaction, tangents to graphs, equilibrium
 Pure substances and formulations, chromatography
 The Earth's resources, sustainable development, pure and potable water, purifying water and
 Revision of year 9 content and preparation for mock exams

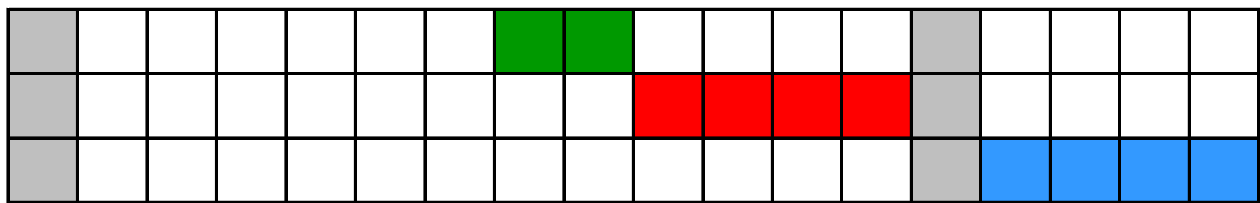
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Pure substances and formulations, testing for common gases , chromatography
The Earths resources, sustainable development, pure and potable water, purifying water and
Past paper preparation, mock exams and intervention

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