



Love of Learning, Opportunity, Resilience, Respect

2024-2025 Boston High School Science KS3 and Chemistry KS4 and KS5 Curriculum Overview

KS3: **Biology** / **Chemistry** / **Physics**

Year	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
7	Intro Topic Energy Organisms	Matter Organisms/Ecosystems	Waves Reactions Ecosystems	Genes Reactions	Electromagnets Genes	Forces/Waves Earth
	Note: Some topics will be taught at different times due to split classes and staff working days, however all students will cover each topic above throughout the year.					
8	Forces/Energy Organisms Matter/Reactions	Organisms/Genes/Ecosystems Electromagnets	Reactions Electromagnets /Waves Ecosystems	Matter Energy / Waves Genes	Waves/Energy Genes	Earth Energy/Waves GCSE Preparation Tasks
	Note: Some topics will be taught at different times due to split classes and staff working days, however all students will cover each topic above throughout the year.					
9	Atomic Structure and the Periodic Table	Atomic Structure and the Periodic Table	Structure and Bonding	Structure and Bonding	Hydrocarbons	Atmosphere
10	Quantitative Chemistry	Quantitative Chemistry	Chemical Changes	Chemical Changes/ Energy Changes	Rate of Reaction	Equilibrium
11	Equilibrium	Organic Chemistry (Sep) Chemical Analysis (Comb)	Chemical Analysis (Sep) Using Resources (Comb)	Using Resources (Sep)	REVISION	REVISION
12	Atoms & Moles/ Formulas & Equations Electrons & Bonding/ Basic Concepts of Organic Chemistry	Shapes of Molecules/ Reactions and Calculations/ Periodic Table Hydrocarbons	Reactivity Trends/ Enthalpy Alcohols & Haloalkanes	Rate of Reaction & Equilibrium Organic Synthesis/ Spectroscopy	Rate of Reactions & Equilibrium Spectroscopy/ Aromatic Compounds	Equilibrium Aromatic Compounds
13	Equilibrium Aromatic Compounds Carbonyls & Carboxylic Acids	Enthalpy & Entropy Amines & Amino Acids Acids, Bases & pH	Redox & Electrode Potentials Organic Synthesis Spectroscopy	Spectroscopy Transition Elements	REVISION	



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NOTE: The timings may vary due to the needs of individual students and classes (especially KS3 due to classes having shared teachers) but it is envisaged that all classes will cover the curriculum above.