

KayScience Year 11 - Relevant Live Lessons

September to December 2026 | filtered to topics already taught

FOUNDATION - RECOMMENDED Year 10 Science: Mon + Wed 5:30pm Slower-paced sessions - a good choice for Year 11 Foundation revision.	HIGHER / SEPARATE - RECOMMENDED Year 11 Science: Tue + Thu 5:30pm More intensive sessions - recommended for Higher and Separate Science pupils.	SEPARATE SCIENCE - EXTRA SESSIONS Mon 6:30pm Chemistry Tue 7:30pm Biology Wed 7:30pm Physics Separate pupils can also attend the Year 11 Science sessions.
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Week	Begins	Separate Chemistry Mon 6:30pm	Separate Biology Tue 7:30pm	Separate Physics Wed 7:30pm
1	7 Sept	Structure of the Atom & Periodic Table Structure of atom; mass & atomic number; periodic table	Cells & Microscopes Animal/plant cells; bacterial cells; microscopy	Energy Stores & Pathways Energy stores; pathways; work done
2	14 Sept	History of the Atom J.J. Thomson; Rutherford; Bohr; Chadwick	Cell Transport: Osmosis Diffusion; osmosis; osmosis in vegetables	Energy Continued Energy transfers; power; resources
3	21 Sept	Bonding Ionic bonding & properties; covalent bonding; metals & alloys	Heart & Heart Disease Heart structure; CHD; treatments	Energy Resources Renewables/non-renewables; KE, GPE & elastic energy
4	28 Sept	Groups 1 & 7 Alkali metals; halogens; displacement reactions	Digestive System Digestive enzymes; digestive system; liver & bile	States of Matter & Latent Heat States; heating/cooling graphs; latent heat
5	6 Oct	Acids & Alkalis Neutralisation; indicators; limiting/excess; (H) strong & weak acids	Enzymes Lock-and-key; temperature; pH; substrate concentration	Density & Multi-Step Equations Density; required practical; multi-step equations
6	13 Oct	Paper 1 Calculations Concentration; (H) reacting masses; limiting reactant; balanced equations	Cell Division Mitosis; stem cells; stem-cell issues; mitosis vs meiosis	Electricity - Current & p.d. $Q=It$; $E=QV$; $V=IR$; multi-step equations
7	20 Oct		Lungs & Blood Lungs; capillaries; alveoli & gas exchange	Electricity - Components Component graphs; fuses; mains & appliances
8	26 Oct	HALF-TERM BREAK	HALF-TERM BREAK	HALF-TERM BREAK

Not shown because not yet studied: Chemistry - electrolysis (20 Oct / 2 Nov).

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9	2 Nov		Photosynthesis + Plant Structures Photosynthesis; leaf/stomata; xylem & phloem	Multi-Step Equations in Physics Electricity and energy calculations
10	9 Nov	Energy Changes Exothermic/endothermic; reaction profiles; (H) bond energies	Photosynthesis continued Photosynthesis; limiting factors; required practical	Paper 1 Required Practicals Method, variables and results questions
11	16 Nov	Reactivity Series Reactivity; displacement; (H) redox	Respiration Aerobic/anaerobic; exercise; oxygen debt; fermentation	Paper 1 Required Practicals continued Method, variables and results questions
12	23 Nov	Rates of Reaction Concentration; temperature; surface area; catalyst	Immunity & Drug Testing Immunity; vaccines; drug testing	Alpha, Beta & Gamma Decay Decay; equations; contamination/irradiation; half-lives
13	30 Nov		Arteries, Veins, Capillaries & Blood Blood vessels; capillaries; blood components	Vectors, Scalars & Motion Speed; distance-time graphs; acceleration
14	7 Dec	Separation Techniques Filtration; crystallisation; distillation; fractional distillation; chromatography		Acceleration & Velocity-Time Graphs Acceleration; distance from graph; uniform acceleration
15	14 Dec		Paper 1 recap Recap using KayScience videos	Paper 1 recap Recap using KayScience videos

Not shown because not yet studied: Chemistry - electrolysis (2 Nov) and dynamic equilibrium (30 Nov); Biology - hormones & diabetes (7 Dec). The Chemistry Paper 1 recap on 14 Dec is also omitted because it may include electrolysis.

Sunday GCSE Masterclass sessions are not included because the timetable does not identify their specific topic in advance.