Applied Science					
	Year 12			**Year 13**	
Autumn 1	Biology: Cells and microscopy Cells Prokaryotes Plant cells	Chemistry: Prepare and standardise solutions for titration and colorimetry	Physics: Interpreting wave graphs Wave types Wave speed diffraction gratings stationary waves	Biology: Enzymes - protein structures, Enzymes - active sites, Enzymes - biological catalysts, Enzymes - factors affecting activity	Physics: Develop a hypothesis Plan an investigation Record data Process data Interpret and analyse data
Autumn 2	Biology: Specialised cells - plants and animals Epithelial tissue	Chemistry: Use chromatography to separate out mixtures	Physics: Musical instruments Optical fibres Endoscopy Electromagnetic waves	Biology: Optional unit of coursework	Physics: Investigate fuels Risks of investigating fuels Units of energy
Spring 1	Biology: Blood vessels and atherosclerosis Fast and slow twitch muscle Nerve tissue Nerve impulse	Chemistry: Electronic structure of atoms Bonding Amount of substances Calculating reacting masses and gas volumes	Physics: Construct cooling curves	Biology: Optional unit of coursework	Physics: Symbols in electrical circuits Power equations Energy usage
Spring 2	Biology: EEG Synapses Brain chemicals	Chemistry: Periodic table and trends Reactions of period 2 and 3 Reactions of metals oxidation	Physics: Evaluate scientific skills developed	Biology: Diffusion of molecules Kinetic theory and diffusion Plant growth and distribution Improving plan growth Sampling techniques	Evaluate a hypothesis
Summe	Biology: Revise for the Unit 1 Exam	Chemistry: Revise for Unit 1 exam Complete any unfinished coursework sections	Physics: Revise for Unit 1 exam Complete any unfinished coursework sections	Biology: Revise for unit 3 exam Complete any unfinished coursework sections	Physics: Revise for the Unit 3 exam

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S u m m e r 2	Biology, Chemistry and Physics: Developing a hypothesis Planning an investigation Risk assessments Variables in an investigation Producing a method				