		Autumn		Spring		Summer	
		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	Knowledge	What is means to be alive B1 Cells B1 Diffusion B1 Reproduction B7 Puberty* Foetal development*	States of matter & particles C1 Changes of state C1 Acids and alkali C8	Energy stores & transfers P3 Temperature P12 conduction P3, convection P3, radiation P3, insulation P3 Energy resources P3	Photosynthesis B6 Food chains & webs B9 Ecosystems B9 Human nutrition B1, B7 Drugs B5	Atoms C3 Elements, compounds and mixtures C2, C5,6,7 Chemical formulae C4,5,6,7 Solubility C8 Separation techniques C2	Forces P2 Friction P2 Speed P1 Distance/time graphs P1 Mass & weight P2 Elasticity & density P12
	Skills	Examine specimens using a microscope Use & rearrange equations As below	Set up & use a Bunsen burner. As below	As below	As below	Separate mixtures of substances using appropriate techniques. As below	Use appropriate apparatus to measure & record and explain differences between related measurements As below
	Planning experimental methods – Identify hazards & plan to control risks. Apply sampling techniques. Identify & choose appropriate independent & dependent variables. Identify & plan to control appropriate control variables. **Collecting & recording results** – Make sufficient observations & readings with consideration of an appropriate degree of detail, accuracy & precision, produce labelled diagrams. Use & develop systematic tables in which to record data. **Considering results & drawing conclusions** – Use observations, data and scientific knowledge to draw conclusions. Interpret & plot bar charts and line graphs. Calculate mean. Identify patterns, correlations & linear relationships in data. Identify anomalous results. Use line graphs to estimate values **Evaluating experimental methods & results** – Suggest ways to improve an experiment. Suggest reasons for differences in repeat readings and suggest better ways to control variables.						
	Assessment	B1 assessment 1 & 2 Test	C1 assessment 1 & 2 Test	P1 assessment 1 & 2 Test	B2 assessment 1 & 2 Test	C2 assessment 1 & 2 Test	P2 assessment 1 & 2 Test

Due to timetable constraints year 7 and 8 are on a rolling rota. All students do the 1 topics (B1, C1, P1) first and then the 2 topics. However, the order of the topics therein varies. These topics all provide the foundation skills/knowledge for future topics (in red). Those topics with a * students do not meet again but are included as part of a broad and balanced curriculum