		Autumn		Spring		Summer	
		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 8	Knowledge	Respiratory system B8 Circulatory system B8 Aerobic respiration B8 Gas exchange in plants B6, B8 Enzymes B1	Atomic structure C3 P6 Periodic table C4 Properties of metals and non-metals C7 Properties of group 1,7,0 C13 Reactivity series C11 Polymers, ceramics and composites Exothermic and endothermic reactions C15 Word equations C8 C9	Waves P4 Sound P4 Ear SB2 Light P5 Reflection P4 Refraction P4 Eye SB2	Classification B4 DNA B3 Variation B3 B4 Inheritance B3 B4 Human genome project B3 Natural selection B4 Extinction B4 B9 Biodiversity B9	Atomic structure C3 P6 Conservation of mass C9 Chemical equations C8 C9 Combustion and fuels C15 P3 Reactions of metals with oxygen C11 Thermal decomposition C11 C15 Acids and alkalis C8 Making and naming salts C8	Static charge P9 Current P9 Potential difference P9 Circuit symbols P9 Resistance P9 Magnetism P10 Electromagnetism P11
	Skills	**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. **Using apparatus -** use appropriate apparatus consistently to measure and record and explain differences between related measurements. **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	8B1 ILT 1 8B1 ILT 2 8B1 test	8C1 ILT 1 8C1 ILT 2 8C1 test	8P1 ILT 1 8P1 ILT 2 8P1 test	8B2 ILT 1 8B2 ILT 2 8B2 test	8C2 ILT 1 8C2 ILT 2 8C2 test	8P2 ILT 1 8P2 ILT 2 8P2 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