	Topic title	SUMMARY OF KNOWLEDGE ACQUISTION	APPROXIMATE DURATION (Lessons)	Term 1a								Term1b							Term 2a						Term 2b						Term 3a					Term 3b						
				1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	1	2	3	4	5	6	7
Year 7																																										
1M	Passport	troduction: safe lab work, common equipment and key scientific languag	9																																							
2M	Earth and Universe	This topic includes the planets of our solar system, night and day, seasons and the moon.	12																																							
3M	Speed and Gravity	This topic includes gravity, ditance and time graphs, speed and time graphs and calculating speed.	10																																							
4M	Sound Waves	This topic includes waves transferring energy, sound waves, decibels, noise pollution and hearing.	10																																							
5M	Light Waves	This topic includes waves transferring energy, light waves, relection and refraction.	9																																							
6M	Metals and Non-metals	This topic includes the periodic table, the properties of metals and non-metals and the uses of metals and non-metals.	9																																							
7M	Acids and Alkalis	This topic includes types of acids and alkalis, inicators and neutralisation.	9																																							
7M	Cells	This topic includes microscopes, animal cells, plant cells, oraganelles, tissues and organs.	10																																							
8M	Electrical Circuits	This topic includes circuit diagrams, common electrical components, making circuits, parallel circuits and series circuits	12																																							
10M	Particle Model and Mixtures	This topic includes the particulate nature of matter, solids, liquids and gases.	12																																							
11M	Mini Investigations	Embedding the use of scientific language in practical contexts.																																								
1S	Genes and Variation	This topic includes defining variation, continuous variation and discontinuous variation.	6																																							
2S	Human Reproduction	This topic includes the male and female reproductive organs, fertilisation, pregnancy and the menstrual cycle.	8																																							
3S	Energy Transfer	This topic includes types of energy, energy transfer, renewable and non-renewable energy.	6																																							
4S	Energy Cost	This topic includes enrgy transfer, energy cost and efficiency.	6																																							
5S	Ecosystems	This topic includes adaptions, food chains, food webs and bioaccumulatio	8																																							
6S	Mini Investigations	Embedding the use of scientific language in practical contexts.																																								
Year 8																																										
1M	Periodic Table	This topic includes elements, atoms, Gp I, Gp VII, compounds and mixtures.	12																																							
2M	Types of Reaction	This topic includes combustion, the fire triangle, the reavtions of metals and displacement reactions.	12																																							
3M	Systems	This topic includes digestive system, enzymes, food tests and balanced diets.	12																																							
4M	Waves and EM Spectrum	This topic includes types of wave, longitudinal waves, ultrasound, the electromagnetic spectrum and using an oscilloscope.	9																																							
5M	Forces - contact	This topic includes balanced and unbalanced forces, resultant forces and friction.	9																																							
6M	Forces - pressure	This topic includs the definition of pressure, calculationg pressure and pressure of gases and liquids.	9																																							
7M	Respiration and Movement	This topic includes the respiratory system, aerobic respiration, anaerobic respiration and the skeletal sysytem.	9																																							
8M	Genes and Variation	This topic includes genetic variation, environmental variation, natural selection, genetic cross diagrams, biodiversity and extinction.	9																																							
9M	Energy Changes in Reactions	This topic includes endothermic reactions, exothermic reactions and the conservation of mass.	6																																							
10M	Forces - work	This topic includes levers, pullys, calculating work and moments.	8																																							

11M	Energy - Heating and Cooling	This topic includes states of matter, conduction, convection and radiation.	9
12M	Investigations	Embedding the use of scientific language in practical contexts.	9
1S	Photosynthesis	This topic includes the process of photosynthesis, factors which affect photosynthesis and the structure of a leaf.	12
2S	Earth Structure	This topic includes the structure of the Earth, types of rock, the rock cycle and the carbon cycle.	6
3S	Earth Resources	This topic includes greenhouse gasses, global warming, renewable energy and sustainability.	9
4S	Magnets and Electromagnets	This topic includes magnetic materials, making electromagnets the application of electromagnets.	8
5S	Investigations	Embedding the use of scientific language in practical contexts.	3