Physics (Combined Science)
Year 10 (3 lessons over 2 weeks)

	Topics											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 1	Energy resources			Density, state changes, internal energy					Specific heat capacity, specific latent heat, gas pressure			
Term 2	Atomic models, isotopes, radioactive decay			Nuclear radiation, half life, circuit symbols, charge, current, potential difference and resistance.					Series and parallel circuits, mains electricity			
Term 3	Vectors and scalars, force diagrams			Laws of motion, acceleration					Motion graphs, Hooke's law			

Physics (Combined Science)
Year 11 (3 lessons over 2 weeks)

	Topics											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 1	Acceleration practicals, braking forces			Transverse and longitudinal waves, wave properties				Sound and the electromagnetic spectrum				
Term 2	Magnetic fields			Scientific skills, required practicals and consolidation					Scientific skills, required practicals and consolidation			
Term 3	Targeted revision and intervention			Targeted revision and intervention								

Physics (Single Science)
Year 10 (5 lessons over 2 weeks)

	Topics											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 1	Energy resources			Density, state changes, internal energy		Specific heat capacity, specific latent heat, gas pressure			Atomic models, isotopes, radioactive decay, nuclear radiation, fission and fusion			
Term 2	Static electricity, circuit symbols, charge, current, potential difference and resistance.			Electrical power, series and parallel circuits, mains electricity					Vectors and scalars, force diagrams, laws of motion			
Term 3	Moments, acceleration			Motion graphs, Hooke's law, Falling objects and terminal velocity					Braking forces, momentum, pressure			

Physics (Single Science)
Year 11 (5 lessons over 2 weeks)

	Topics											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Term 1	Transverse and longitudinal waves, wave properties			Sound, seismic waves, electromagnetic spectrum				Uses and dangers of the EM spectrum				
Term 2	Magnetic fields			Motors, generators and transformers					Space			
Term 3	Scientific skills, required practicals and consolidation			Targeted revision and intervention								