	SCHEME OF WORK YEAR 2				
Week	Major	Minor	Assessment		
	L6 Enrolment				
12-Sep	3.6.1.2 Simple Harmonic Motion Oscillations, SHM, Sinusoidal functions	Boyle's law, Charles' law, Pressure law	Yr 2 induction test for Bm5 (online)		
19-Sep	3.6.1.3 Simple Harmonic Systems Mass – spring system, Simple pendulum, Energy in SHM	The ideal gas equation			
1 26-Seb	3.6.1.4 Forced Vibrations and Resonance Forced oscillations, Resonance.	Kinetic theory of an ideal gas.	BM5 Test		
03-Oct	SHM Problem Solving	Gases Problem Solving			
10-Oct	3.7.2 Gravitational Fields Gravitational fields; Field strength, Field patterns	3.8.1 Radioactivity The discovery of the nucleus, Properties of radiation, Inverse square law,	Benchmark 5		
1 1/-Oct	Gravitational potential, Newton's law of gravitation - the force between masses	Decay equations, N - Z curves, Radioactive series, Safety aspects,			
	Half Term				
31-Oct	Planetary fields, Satellites	Radioactive decay law, Activity,			
07-Nov	Gravitational fields Problem Solving	Half-life, Decay constant, Applications.			
14-Nov	3.7.3 Electric Fields Electrostatic phenomena, Coulomb's law – the force between point charges,	3.8.1 Nuclear Energy Energy and mass,			
21-Nov	radial fields. Field patterns, Electric field strength,	Mass defect, Binding energy, Nuclear stability,	BM6 Test		
28-Nov	Uniform Fields Electric potential, Equipotentials,	Fission, Fusion,			
05-Dec	Comparison between electric and gravitational fields	the thermal nuclear reactor.	Benchmark 6		
12-Dec	Electic fields Problem Solving	Nuclear Problem Solving	Student Review 3 Available		
Christmas Holidays					
02-Jan	3.7.4 Capacitance Capacitance, Capacitors, Parallel plate capacitor,	Option topic Week 1			
09-Jan	Energy stored in a charged capacitor,	Option topic Week 2			

16-Jan	Charging and discharging a capacitor.	Option topic Week 3		
23-Jan	3.7.5 Magnetic Fields Permanent magnets; Field lines, flux density; F = Bil	Option topic Week 4	Mini Online Test	
30-Jan	Force on moving charges,	Option topic Week 5		
06-Feb	Applications – the cyclotron and mass spectrometer	Option topic Week 6 & test		
Half Term				
20-Feb	MOCK EXAMS			
27-Feb	Test analysis and practice	Test analysis and practice		
06-Mar	Magnetic flux, Flux linkage, Electromagnetic induction,	MCQ technique		
13-Mar	Faraday's and Lenz's laws,	MCQ technique		
20-Mar	AC generator, Transformers	Long Answer Technique	Benchmark 7	
27-Mar	Paper 3 DA Practice	Long Answer Technique	Student Review 4 Available	
Easter Holiday				
17-Apr	Revision Planning	Option Topic Revision		
24-Apr	Topic in a lesson Revision	Option Topic Revision		
01-May	Topic in a lesson Revision	Topic in a lesson Revision		
08-May	Last Day of U6 Teaching - Friday 14 <sup>th</sup> May			