

SCHEME OF WORK YEAR 2

Unit 1

Unit 2

Assessment

Start of term/L6 Enrolment

L6 Enrolment

13/09	38	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)
20/09	39	3.6.1.3 Simple Harmonic Systems Mass – spring system, Simple pendulum, Energy in SHM	The ideal gas equation	
27/09	40	3.6.1.4 Forced Vibrations and Resonance Forced oscillations, Resonance.	Kinetic theory of an ideal gas.	
04/10	41	SHM Problem Solving	Gases Problem Solving	
11/10	42	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
18/10	43	Gravitational potential, Newton's law of gravitation - the force between masses	Decay equations, N - Z curves, Radioactive series, Safety aspects,	<i>Halt term test data for BM6</i>
25/10	<i>Half Term</i>			
01/11	44	Planetary fields, Satellites	Radioactive decay law, Activity,	
08/11	45	Gravitational fields Problem Solving	Half-life, Decay constant, Applications.	
15/11	46	3.7.3 Electric Fields Electrostatic phenomena, Coulomb's law – the force between point charges,	3.8.1 Nuclear Energy Energy and mass,	
22/11	47	Radial fields. Field patterns, Electric field strength,	Mass defect, Binding energy, Nuclear stability,	
29/11	48	Uniform Fields Electric potential, Equipotentials,	Fission, Fusion,	
06/12	49	Comparison between electric and gravitational fields	The thermal nuclear reactor.	Benchmark 6
13/12	50	Eclectic fields Problem Solving	Nuclear Problem Solving	<i>Student Review 3 Available</i>
20/12	<i>Christmas Holiday</i>			
03/01	51	3.7.4 Capacitance Capacitance, Capacitors, Parallel plate capacitor,	Option topic Week 1	

10/01	52	Energy stored in a charged capacitor,	Option topic Week 2	
17/01	53	Charging and discharging a capacitor.	Option topic Week 3	
24/01	54	3.7.5 Magnetic Fields Permanent magnets; Field lines, flux density; $F = BIl$	Option topic Week 4	
31/01	55	Force on moving charges,	Option topic Week 5	
07/02	56	Applications – the cyclotron and mass spectrometer	Option topic Week 6 & test	
14/02	<i>Half Term</i>			
21/02	57	MOCK EXAMS		
28/02	58	<i>Test analysis and practice</i>	<i>Test analysis and practice</i>	
07/03	59	Magnetic flux, Flux linkage, Electromagnetic induction,	<i>MCQ technique</i>	
14/03	60	Faraday's and Lenz's laws,	<i>MCQ technique</i>	
21/03	61	AC generator, Transformers	<i>Long Answer Technique</i>	Benchmark 7
28/03	62	<i>Paper 3 DA Practice</i>	<i>Long Answer Technique</i>	<i>Student Review 4 Available</i>
04/04	<i>Easter Holiday</i>			
18/04	63	Revision Planning	Option Topic Revision	
25/04	64	Topic in a lesson Revision	Option Topic Revision	
02/05	65	Topic in a lesson Revision	Topic in a lesson Revision	
09/05	66	Last Day of U6 Teaching		