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Week		Theoretical		Applied		Exploring		Advancing
8/9		*Introduction lesson 1*		*Introduction lesson 2*		8.1.1 - Specific heat capacity		*Review FM test summer corrections*
	Practical Skills	0.1.1 and 0.1.2 How are practical skills assessed and SI units	Mechanics	4.1.1 - Scalars and vectors	Thermal	8.1.2 and 8.1.3 - Specific latent heat and tricky thermal transfer problems	Magnetism	11.1.1 - Magnetic flux density
15/9		Induction test		4.1.2 - Forces in equilibrium		8.2.1 - Absolute zero and kelvin temperature scale 8.2.2 - Pressure law 8.2.3 - Boyles law 8.2.4 - Charles' law		11.1.2 - Forces on charged particles
		0.1.3 and 0.1.4 – Experiment design and Micrometres and callipers		4.1.3 - Moments		8.2.2 - Pressure law 8.2.3 - Boyles law 8.2.4 - Charles' law		11.1.3 - Electromagnetic induction
22/9		0.1.5 – Data and tables		4.1.4 - Centre of mass and moments		8.2.5 - Molar mass an Avogadro's constant 8.2.6 - The ideal gas equation 8.2.7 - Work done on a gas		11.1.4 - Faraday's law and Lenz's law
		0.1.6 and 0.1.7 – Drawing manipulating straight line graphs		4.1.5 - Problems with two pivots		8.3.1 - Intro to kinetic theory 8.3.2 and 8.3.3 - Deriving and using the kinetic theory equation		11.1.5 - Alternating current
29/9		0.1.8 – Sources of error and uncertainty		4.2.1 - Uniform acceleration		8.3.4 - Calculating the energy of a gas		11.1.6 - Transformers
		0.1.9 – Calculating uncertainties		Mechanics Interim test		*Revision*		Required practical 10
6/10		0.1.10 – Evaluating and concluding		4.2.2 - Displacement time graphs		*Revision*		Practice practical questions lesson
		Practical skills revision lesson		4.2.3 - Velocity time graphs		Thermal test		*Revision*
13/10		Practicals test		4.2.4 - Acceleration time graphs		Required practical 8A		*Revision*
	Waves	3.1.1 - Transverse and longitudinal		4.2.5 - Newton's laws of motion		Required practical 8B		Magnets Test
20/10 PR1		3.1.2 - Polarisation of waves		4.2.6 - Acceleration due to gravity		Practice practical questions lesson		Required practical 11
		3.1.3 - Wave speed		4.3.1 - Projectile motion		Test feedback		Practice practical questions lesson Test feedback
	Half term break							
3/11	Waves	3.3.1 - Refractive index	Mechanics	4.3.2 - Drag lift and terminal speed	Gravitational Fields	9.1.1 and 9.1.2 Intro to gravitational fields and Gravitational force	Nuclear	12.1.1 - Measuring nuclear radius
		3.3.2 - Critical angle and TIR		Required practical 3		9.1.3 - Gravitational field strength		12.1.3 - Properties of nuclear radiation
10/11		Waves Interim test		4.3.3 - Conservation of momentum		9.1.4 - Gravitational potential part 1		12.1.4 - Background radiation and intensity
		3.1.4 - Superposition and stationary waves		4.3.4 - Force, momentum, and impulse		9.1.5 - Gravitational potential part 2		12.2.1 - Exponential law of decay
17/11 *PR day + wellbeing day*		3.1.5 - Investigating resonance		4.3.5 - Work and power		9.1.6 - Satellite orbits		12.2.2 - Half-life and its applications
		-		-		9.1.7 - Orbital equations		12.2.3 - Nuclear decay
24/11		Required practical 1A		4.3.6 – Conservation of energy		G-fields and circular motion interim assessment		12.3.1 - Mass defect and binding energy
		Required practical 1B		*Mechanics revision lesson*	Electric Fields	9.2.1 and 9.2.2 - Intro to electric fields and Electric force		12.3.2 - Nuclear fission and fusion
1/12		3.2.1 – Diffraction		*Mechanics revision lesson*		9.2.3 - Electric field strength		12.3.3 - Nuclear fission reactors
		3.2.2 – Two source interference		Mechanics test		9.2.4 - Charged particles fired into a uniform field		*Revision*
8/12		3.2.3 – Diffraction gratings	Materials	5.1.1 - Density		9.2.5 - Electric potential part 1		Nuclear assessment
		Required practical 2A		5.1.2 - Hooke's law		9.2.6 - Electric potential part 2		Required practical 12
15/12 PR2		Required practical 2B		5.1.3 – Elastic potential energy		9.2.7 - Comparing electric and gravitational fields		Practice practical questions lesson
		slack		*slack*		*slack*		*slack*

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	Christmas break										
5/1		*Mid year exam revision*	Materials	5.1.4 - Stress and strain		*Revision*	Astrophysics	13.1.1 - Lenses
		Mid year exam revision		5.1.5 - Youngs modulus		Fields Test		13.1.2 - Optical telescopes
12/1		*Mid year exam revision*		5.1.6 - Brittle materials	Capacitors	10.1.1 - Capacitors		13.1.3 - Comparing telescopes
		Mid year exam revision		*Mid year exam revision*		10.1.2 - Energy stored by capacitors		13.1.4 - Non-optical telescopes
19/1		Mid-year exam		Mid-year exam		10.1.3 - Dielectrics		13.1.5 - Parallax and parsecs
		Mid-year exam		Mid-year exam		10.1.4 - Charging and discharging		13.2.1 - Magnitude
26/1	Quantum	2.1.1 - Intro to the photoelectric effect	Circuits	6.1.1 - Circuit basics		10.1.5 -Time constant and time to halve		13.2.2 - Stars as blackbodies
		2.1.2 – Calculations with the photoelectric effect		6.1.2 - Current, voltage and resistance in series 6.1.3 - Current, voltage and resistance in parallel		***Revision***		***Revision***
2/2		2.1.5 - Wave particle duality		*Review of Mid-year*		***Revision***		***Revision***
		2.1.3 - Energy levels in atoms part 1		6.1.4 – Solving tricky circuit combinations		***Revision***		***Revision***
9/2		2.1.4 - Energy levels in atoms part 2		6.2.1 – IV characteristics		**Mock exams**		**Mock exams**
		Quantum interim task		***LDRs and Thermistors***		**Mock exams**		**Mock exams**
	Half term break										
23/2	Particles	1.1.1 - Atomic structure	Circuits	6.2.2 – Resistivity and superconductors	Capacitors	Required practical 9A	Astrophysics	13.2.3 - Stellar spectral classes
		1.1.2 - Stable and unstable nuclei		Required practical 5		RP follow up		13.2.4 - Hertzsprung-Russell diagram
2/3		1.1.3 - Antiparticles and photons		6.2.3 - Power and electrical energy		Mock exam feedback		13.2.5 - Evolution of sun like stars
		1.1.4 - Hadrons and leptons		6.2.4 - EMF and internal resistance		Required practical 9B		13.3.1 - Supernovae and Neutron stars
9/3		1.1.5 - Quarks and antiquarks		Required practical 6		RP follow up		13.3.2 - Black holes and quasars
		1.1.6 - Strange particles and conservation of properties		6.2.5 - Potential dividers		***Revision***		13.3.3 - The doppler effect and red shift
16/3		1.1.7 - Particle interactions		*Electricity revision lesson*		***Revision***		13.3.4 - The big bang theory
		Particles Revision lesson		*Electricity revision lesson*		***Revision***		13.3.5 - Detection of binary stars and exoplanets
23/3		Particles + *Quantum* test		Circuits test		***Revision***		*Revision*
		slack		*slack*		***Revision***		Astro test
	Easter Break										
13/4	Further Mechanics	7.2.1 – Simple harmonic motion intro	Further Mechanics	7.1.1 and 7.1.2 – Radians and angular speed		**Mock exam paper 2**		**Mock exam paper 2**
		7.2.2 and 7.2.3 – Calculations for SHM and energy intro		7.1.3 and 7.1.4 – Centripetal force and acceleration		***Revision***		***Revision***
20/4		*slack*		*slack*		***Revision***		***Revision***
		slack		*slack*		***Revision***		***Revision***
27/4		***Transfer revision***		***Transfer revision***		**Mock exam paper 3**		**Mock exam paper 3**
		Transfer revision		***Transfer revision***		***Revision***		***Revision***
4/5		***Transfer revision***		***Transfer revision***		***Revision***		***Revision***
		Transfer revision		***Transfer revision***		***Revision***		***Revision***
11/5		**Transfer exams**		**Transfer exams**				
		Transfer exams		**Transfer exams**				
18/5		**Transfer exams**		**Transfer exams**				
		Transfer exams		**Transfer exams**				

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	May Half term							
1/6		**WEX**		**WEX**				
		WEX		**WEX**				
8/6	FM: SHM	SHM recap	FM: Circular motion	Circular motion recap				
		7.2.4 – Simple harmonic oscillators		7.1.5 – Motion in a vertical circle				
15/6		7.2.5 and 7.2.6 – Free and force vibrations and damping intro		7.1.6 – Circular motion at an angle				
		Required practical 7A		Required practical 7B				
22/6 FoS		Practice practical questions lesson		Practice practical questions lesson				
29/6		*Further mechanics revision*		*Further mechanics revision*				
		Further mechanics revision		Further mechanics test				
6/7		Glider project		Glider project				
		Glider project		Glider project				