

Curriculum Recovery Brief Outline

Half-term (or specific weeks)	Programme of Learning Title	Catch Up Elements	Assessments	Remote Contingency
Autumn 1	Safety <ul style="list-style-type: none"> - Lab Safety - Equipment Diagrams - Hazard Symbols 7I Energy <ul style="list-style-type: none"> - Energy in food and food requirements - Energy stores and transfers - Renewable and non-renewable sources - Energy sources and power stations 	None	1. End of Unit Test for Energy	Once LOCKDOWN OCCURS upload videos in order of lesson. See year 11 priority below APO to do these lessons for the whole year group
Autumn 2	7J Electricity <ul style="list-style-type: none"> - Conductors, insulators and symbols - Modelling electric current 		2. CPR - Modelling Electrical Circuits	
Spring 1	<ul style="list-style-type: none"> - Series and parallel circuits - Voltage, resistance & electrical dangers and safety 		3. End of Unit Test for Electricity	
Spring 2	7K Forces <ul style="list-style-type: none"> - Types of forces - Effect of forces on elastic objects - Friction and its effects - Pressure in solids - Balanced and unbalanced forces 		4. CPR - Spring Graph 5. End of Unit Test on Forces	
Summer 1	7L Sound		6. CPR - 6 Marker Question on how sound travels	

	<ul style="list-style-type: none">- Vibrations and media sound can travel through- Hearing range, detecting sounds and ultrasounds			
Summer 2	<ul style="list-style-type: none">- Uses of ultrasound- Transverse and longitudinal waves		7. End of Unit Test on Sound	

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Autumn 1	7L Sound <ul style="list-style-type: none"> - Vibrations and media sound can travel through - Hearing range, detecting sounds and ultrasounds - Uses of ultrasound - Transverse and longitudinal waves 	Moved the topic on sound from the end of year 7.	1. CPR - Sound 6 mark Q 2. End of topic test on Sound	Once LOCKDOWN OCCURS upload videos in order of lesson. See year 11 priority below. GBU to do these lessons for the whole year group
Autumn 2	8I Fluids <ul style="list-style-type: none"> - Physical reactions when heating and cooling - Pressure in liquids - Floating and sinking - Drag forces and streamlining 		3. End of Topic Test on Fluids	
Spring 1	8J Light <ul style="list-style-type: none"> - Reflection from smooth and rough surfaces - refraction of light - Camera and eyes linked into lenses Coloured light, paint and filters		4. CPR - Convection Exp.	
Spring 2	8K Energy <ul style="list-style-type: none"> - Heat transfers – conduction, convection & radiation - Insulation and how it can stop heat transfers 		5. End of topic test on Light	
Summer 1	8K Energy <ul style="list-style-type: none"> - Sankey diagrams, power and efficiency - Paying for energy and payback time for insulation 		6. CPR - Sankey Diagram 7. End of topic test on Energy	
Summer 2	8L Earth in space <ul style="list-style-type: none"> - Day, night and the seasons - Earth's magnetic field and its effects - Gravity, mass and weight - Solar systems, galaxies and the Universe 		8. Year 8 Exam 9. End of topic test on Earth and Space	

Curriculum Intent:

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Autumn 1	8L Earth in space <ul style="list-style-type: none"> - The seasons - Earth's magnetic field and its effects - Gravity, mass and weight - Solar systems, galaxies and the Universe 9J Electricity <ul style="list-style-type: none"> - Electromagnets and how to vary their strength - Uses of electromagnet 	Earth and Space are included here from missed year 8 scheme last year. In order to retain a varied diet within the curriculum for all pupils, we have re-introduced electricity, along with practical physics at this point as some would not meet this in combined science.	1. End of topic test on Earth and Space 2. CPR - Magnets	Once LOCKDOWN OCCURS upload videos in order of lesson. See year 11 priority below. GBU and APO to do alternate lessons
Autumn 2	9I Practical Physics <ul style="list-style-type: none"> - Moments and turning forces - Pulleys Lever and Gears 9I/P1 <ul style="list-style-type: none"> - Vectors and scalars - Speed and d/t graphs 		3. End of topic test on Practical Physics	
Spring 1	9I/P1 <ul style="list-style-type: none"> - Acceleration 		4. End of Year Test	

	<ul style="list-style-type: none"> - Speed Time graphs 9I/P2 - Resultant forces and force diagrams - Newton's first law 			
Spring 2	<ul style="list-style-type: none"> - Mass, weight and gravity - Newton's 2nd Law - Newton's third Law - Momentum - Stopping distances - Collisions and crash safety 		<ul style="list-style-type: none"> 5. CPR – Speed-Time Graphs 6. End of topic test on P1 	
Summer 1	<p>P3</p> <ul style="list-style-type: none"> - Energy stores and transfers - Energy efficiency - Keeping warm and efficiency 		<ul style="list-style-type: none"> 7. End of topic test on P2 	
Summer 2	<ul style="list-style-type: none"> - Kinetic and potential energy - Renewable and non-renewable - Renewable energy and power 		<ul style="list-style-type: none"> 8. CPR – KE and GPE 	

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Autumn 1	P3 Recap - KE and GPE - Renewable and Non-renewable P4 Frequency, wavelength and wave types Wave speed and equation and media for waves	P3 moved from year 9 into year 10,	1. End of topic test on Energy 2. CPR - Wave speed method	Once LOCKDOWN OCCURS upload videos in order of lesson. See year 11 priority below.
Autumn 2	Refraction and effect of coloured light Waves and boundaries Ears and Hearing Ultrasound and Infrasound P5 Electromagnetic spectrum, properties, groups & uses Colour Lenses Radiation and temperature Dangers of EM Spectrum		3. CPR - Waves Comparison 4. CPR - EM dangers EQ 5. CPR - IR-Rad 6. End of topic test on the Electromagnetic Spectrum	
Spring 1	P6		7. CPR - Types of radiation EQ	

	Atomic structure including the nucleus Working out numbers of p,e,n for elements Electron orbits Radiation and decay Half-life Dangers of radioactivity Radiation in medicine Fission and Fusion		8. CPR - Using a GM Tube Q 9. CPR - Nuclear Fission Q 10. End of topic test on Radioactivity	
Spring 2	Space Topic The Solar System Gravity and Orbits Life cycle of stars Redshift Origins of the Univers P7 Power and work Objects affecting each other		11. End of year exams 12. CPR - Red Shift & CMBR Q 13. End of topic test on Space 14. CPR - Work and Power Q	
Summer 1	P8 Vector Diagrams Rotational forces P9 Domestic electricity Electrical Safety Circuit symbols and series and parallel Current & voltage in series & parallel		15. CPR - Vector Diagrams 16. CPR - Moments Q 17. End of topic test on Work and Power 18. CPR - Plugs and Fuses	
Summer 2	Energy and charge in circuits Resistance in series and parallel circuits Special resistors	Some electricity moved on to year 11	19. CPR - Resistance of a bulb EQ	

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Autumn 1	P9 Circuit symbols and series and parallel (APO) Current & voltage in series & parallel (APO) Energy and charge in circuits (GBU) Resistance in series and parallel circuits (APO) Special resistors (GBU) Energy and heating from a circuit 9 (GBU) Transferring energy (GBU) Power in circuits (GBU) Transferring energy by electricity (GBU)	Starting with electricity for this year 11 group, as this was missed at the end of year 10.	1. CPR - Plugs and Fuses 2. CPR - Resistance of a light bulb 3. CPR - Resistance, series or parallel	Priorities until LOCKDOWN OCCURS - Stream video to be created by staff assigned for each element of the curriculum. Once LOCKDOWN OCCURS upload videos in order of lesson.
Autumn 2	Electrical Safety (APO) Domestic Electricity (APO) Charges and electrostatics (APO) Dangers of electrostatics (GBU) Electric Fields (GBU) P10 Magnets and fields (APO) Electromagnetism (GBU) Magnetic forces (APO)		4. End of topic test on Electricity 5. CPR - Creating static EQ 6. CPR - Magnetic field around a wire 7. MOCKS	
Spring 1	P11 Transformer equation and calculations (GBU) Transformers and energy (GBU) P13 Electromagnetic induction (GBU) National Grid (GBU) Transformer equation and calcs (GBU) P12		8. CPR - Transformers NG Q 9. CPR - Core Prac Spring Q 10. CPR - Density EQ	

	Particles and density (APO)			
Spring 2	Changing state and density (APO) Energy Calculations (APO) Gas temps and pressures (APO) Gas pressures and volume (APO)		11. MOCKS 2	
Summer 1	P13 Bending, stretching and Hooke's Law (GBU) Elastic limit and work done in stretching springs (GBU) Pressure in fluids (APO) Pressure and upthrust (APO) Exams	Potential for exams to be moved back by government?		
Summer 2				