Year 12

Subject: Physics

Fortnight	Topic Title EVA	Lesson Title	Topic Title HIB	Lesson Title
1	3 - Motion	3.1 Speed and velocity, 3,2 Displacement-time graphs, 3.3 Acceleration	8 - Charge and current	Charge and current L1& L2 EMF, potential difference & energy L1 & L2
2	3 - Motion	3.4 Equations of motion, 3.5 Equations of motion with g, 3.1.6 Freefall	8 - Charge and current	EMF & Ohm's law Combining resistance PAG 4.1 and 4.2 Uncertainties
3	3 - Motion	3.1.7 PAG 1.1, 3.1.8 Projectile motion	9 - Energy, power and resistance	Ohm's law I-V characteristics LI & L2 PAG 3.2 Defining and measuring resistivity PAG 3.1
4	4 - Forces in action	4.1 F=ma, 4.2 Applying F=ma	9 - Energy, power and resistance	Resistivity and temperature Drift velocity Kirchhoff's laws
5	4 - Forces in action	4.3 Drag and TV, 4.4 PAG 1.2,4.5 Equilibrium, 4.6 InvCoplanar forces	9 - Energy, power and resistance	Potential dividers LI & L2 Internal resistance LI & L2
6	4 - Forces in action	4.7 Centre of mass, 4.8 Principle of moments, 4.9 Applying the principle of moments, 4.10 Equilibrium	10 - Electrical circuits	Revision on electricity
7	4 - Forces in action	4.11 Density, 4.12 Archimides' Principle, 4.13 Pressure	10 - Electrical circuits	Revision on electricity
8	5 - Work, Energy and Power	5.1 Work and energy, 5.2 Car stopping distances PAG 1.3, 5.3 Power and efficiency	- Waves	Wave definitions and properties Finding f & λ using v=f λ PAG 5.3 Transverse waves & polarisation

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9	6 - Materials	6.1 Hooke's Law and EPE, PAG 2.2, 6.2 Loading and unloading materials, 6.3 Young Modulus PAG 2.1	11 - Waves I	Intensity and polarisation LI & L2 Refraction of light LI & L2
10	7 - Laws of motion and momentum	7.1 Momentum, 7.2 Newton's Laws, 7.3 Impulse	11 - Waves 1/12 - Waves 2	Total internal reflectionSuperposition of wavesL1-3
11	7 - Laws of motion and momentum	7.4 Cons of Momentum, 7.5 Cons of Momentum 2D, 7.6 Elastic and inelastic collisions	12 - Waves 2	Standing waves LI & L2 PAG 5.2 Diffraction LI & L2 PAG 5.3
12	21 - Capacitance	21.1 Capacitors, 21.2 Capacitors in circuitsa and PAG 9.2, 21.3 Energy stored by capacitors	12 - Waves 2	Revision electricity & waves
13	21 - Capacitance	21.4 Discharging capacitors, 21.5 Charging capacitors and PAG 9.1	13 - Quantum	Quantum Physics introduction Energy of a photon PAG 6.1Photoelectric effect Wave particle duality
14	21 - Capacitance/22 - Electric Fields	21.6 Uses of capacitors, 22.1 Electric fields, 22.2 Coulomb's Law	16 - Circular motion	Circular motion description Circular motion experimentally
15	22 - Electric Fields	22.3 Electric fields and capacitors, 22.4 charged particles and electric fields	16 - Circular motion	Examples of circular motion Newton's law of gravitation
16	22 - Electric Fields	22.5 Electric potential and energy	18 - Gravitational fields	Gravitational fields & energy Orbits & gravitational potential Escape velocity
17	Revision		18 - Gravitational fields/Revision	
18	Revision		Revision	
19	Revision/Exams		Revision/Exams	
20	Exams		Exams	