

CIE A Level Physics TOPIC CHECKLIST Studied Notes Multiple Choice Theory Section **Topic** (✓/X) (✓/X) (%) (%) 1. Physical Quantities & Units Physical Quantities & Units Measurements & Errors 2. Kinematics **Equations of Motion** 3. Dynamics Newton's Laws of Motion Linear Momentum & Conservation 4. Forces, Density & Pressure Forces: Turning Effects & Equilibrium Forces: Density & Pressure 5. Work, Energy & Power Energy: Conservation, Work, Power & Efficiency Energy: GPE & KE 6. Deformation of Solids Deformation: Stress & Strain Deformation: Elastic & Plastic Behaviour 7. Waves Waves: Transverse & Longitudinal Transverse Waves: EM Spectrum & Polarisation 8. Superposition Stationary Waves Diffraction & Interference 9. Electricity **Current & Potential Difference** Resistance Resistivity 10. D.C. Circuits DC: Practical Circuits & Kirchhoff's Laws DC: Potential Dividers 11. Particle Physics Atoms, Nuclei & Radiation **Fundamental Particles** 12. Motion in a Circle Kinematics of Uniform Circular Motion (A Level only) Centripetal Acceleration (A Level only) 13. Gravitational Fields Universal Gravitation (A Level only) **Gravitational Potential (A Level only)** 14. Temperature Measuring Temperature (A Level only) Phase Changes (A Level only) 15. Ideal Gases Ideal Gas Law (A Level only) Kinetic Theory (A Level only) 16. Thermodynamics The First Law of Thermodynamics (A Level only) 17. Oscillations Simple Harmonic Motion (A Level only) Damped Oscillations (A Level only) 18. Electric Fields Electric Fields (A Level only) Electric Potential (A Level only) 19. Capacitance Capacitors (A Level only) Charging and Discharging (A Level only) 20. Magnetic Fields Magnetic Fields (A Level only) Electromagnetic Induction (A Level only) 21. Alternating Currents Properties and Uses of Alternating Current (A Level only)



22. Quantum Physics	The Photoelectric Effect (A Level only)			
	Wave-Particle Duality (A Level only)			
	Quantisation of Energy (A Level only)		 	
23. Nuclear Physics	Mass Defect & Nuclear Binding Energy (A Level only)			
	Radioactive Decay (A Level only)			
24. Medical Physics	Ultrasound & X-rays (A Level only)			
	PET Scanning (A Level only)			
25. Astronomy & Cosmology	Astronomy (A Level only)			
	Cosmology (A Level only)			