



Curriculum Map- A Level Physics

Below is a curriculum map, showing what is taught at each stage of the year.

	Term 1.1	Term 1.2	Term 2.1	Term 2.2	Term 3.1	Term 3.2	
Year 12	Measurements <ul style="list-style-type: none"> Measurements and their errors Use of SI units and their prefixes Limitation of physical measurements Estimation of Physical Quantities 	Particles <ul style="list-style-type: none"> Electromagnetic radiation and quantum phenomena 	Waves <ul style="list-style-type: none"> Progressive and stationary waves Refraction, diffraction and interference 	Mechanics and materials <ul style="list-style-type: none"> Forces, energy and momentum Materials 	Electricity <ul style="list-style-type: none"> Current electricity 		
Year 13	Mechanics <ul style="list-style-type: none"> Further mechanics and thermal physics Periodic motion Thermal physics 	Fields <ul style="list-style-type: none"> Fields and their consequences Fields Gravitational fields Electric fields Capacitance Magnetic fields 	Nuclear physics <ul style="list-style-type: none"> Radioactivity 	2 OPTIONAL UNITS			Electronics <ul style="list-style-type: none"> Discrete semiconductor devices Analogue and digital signals Analogue signal processing Operational amplifier in: Digital signal processing Data communication systems
			Astrophysics <ul style="list-style-type: none"> Telescopes Classification of Stars Cosmology 	Medical physics <ul style="list-style-type: none"> Physics of the eye Physics of the ear Biological measurement Non-ionising imaging X-ray imaging Radionuclide imaging and therapy 	Engineering physics <ul style="list-style-type: none"> Rotational dynamics Thermodynamics and engines 	Turning points in physics <ul style="list-style-type: none"> The discovery of the electron Wave-particle duality Special relativity 	

A Level Physics Assessment

Paper	Topics	Assessment Format	Question Style
1	Sections 1 to 5 and 6.1 (Periodic motion)	<ul style="list-style-type: none">• written exam: 2 hours• 85 marks• 34% of A-level	60 marks of short and long answer questions and 25 multiple choice questions on content.
2	Sections 6.2 (Thermal Physics), 7 and 8 Assumed knowledge from sections 1 to 6.1	<ul style="list-style-type: none">• written exam: 2 hours• 85 marks• 34% of A-level	60 marks of short and long answer questions and 25 multiple choice questions on content
3	Section A Compulsory section: Practical skills and data analysis Section B: Students enter for one of optional sections 9, 10, 11, 12 or 13	<ul style="list-style-type: none">• written exam: 2 hours• 80 marks• 32% of A-level	45 marks of short and long answer questions on practical experiments and data analysis. 35 marks of short and long answer questions on optional topic.