



Subject Intent Statement:

To inspire students to follow that sense of wonder at how the world and the Universe work; to inspire them to be curious about understanding how Physics applies to the world around us and explains the natural phenomena in the Universe; to engage and challenge our students, to teach them to solve problems and develop scientific skills; to teach them to never stop asking “why” or “how”

	Year 7*	Year 8*	Year 9 (KS3/4 transition)	Year 10	Year 11	Year 12		Year 13			
						Teacher 1	Teacher 2	Teacher 1	Teacher 2		
Term 1	Physics 1: <i>Forces & Motion</i> Metacognition: <i>Study/revision skills</i>	Physics 3: <i>Waves</i> Metacognition: <i>Study/revision skills</i>	5: Forces (Part 1)	2: Electricity (Part 2) <i>*Covid catch up</i>	4: Atomic Structure <i>*Covid catch up</i>	3.1: Motion	4.1 Charge & Current	5.1: Thermal Physics and Ideal Gases	6.1 Capacitors		
Term 2			3: Particle Model	1: Energy (Part 2)	7: Electromagnetism 6: Waves	3.3: Work, Energy, Power		4.2: Energy, Power & Resistance	5.3: Oscillations	6.2: Electric Fields	
Term 3			Synoptic assessment	Synoptic assessment	Mocks	3.2(a) & 3.5: Forces, Motion, Newton's Laws	4.3: Electrical Circuits		5.2: Circular Motion	6.3: Magnetic Fields	
Term 4			2: Electricity	5: Forces (Part 2)	6: Waves			3.2(b): Forces & Equilibrium	4.4(a): Wave Properties	Mocks	6.4: Nuclear Physics
Term 5			Physics 2: <i>Space</i> Metacognition: <i>Study/revision skills</i>	Physics 4: <i>Energy</i> Metacognition: <i>Study/revision skills</i>	1: Energy (Part 1)	4: Atomic Structure	8: Space	3.4: Materials	4.4(b): Stationary Waves	5.5: Astrophysics & Cosmology	6.5: Medical Imaging
Term 6					End-of-year assessment	End-of-year assessment	End-of-year assessment		5.1(a): Thermal Physics	4.5: Quantum Physics	
			1: Energy (Part 1)	4: Atomic Structure		5.1(b): Ideal Gases	6.1: Capacitors				

NOTES

**In Y7 and 8, due to factors such as different teaching splits and the potential need to stagger delivery of topics to avoid overload of the same resources required at the same time, these topics may not be taught in the same order for each group; however, one Physics topic will be taught in each half of each year for Y7 & 8*

**Y9 is a transition year which ensures firstly that relevant topics from the KS3 National Curriculum are taught and built on fully, while also beginning KS4 teaching*

KS4 – **Topic 5: Forces and Motion has been split into two parts as the topic is large, and the content covered in Y9 builds on prior knowledge from Y7, while the content in Y10 introduces newer, higher level concepts*

KS4 – **Topic 1: Energy has been split because it is not possible to complete the topic in the time at the end of Y9, and the topic itself is comprised of three distinct, unconnected parts (global energy resources, thermal energy, and energy transfers)*

**KS3/4 – the topics have been ordered in such a way that where topics have previously been studied, they are revisited and built on every two to three years*

**KS5 – the topics have been split more or less down the lines of the topics covered by each A2 paper. However, there is scope for flexibility in terms of adapting to teacher specialisms and vagaries of timing*

**KS5 – the topics have also been ordered either in such a way that links together more naturally (as in the case of the Y12 topics for teacher 1), or to break up the large amount of similar topics to increase engagement and interleaving of work (as in the case of the Y12 topics for teacher 2)*

****2021-22: some topics are being finished/delivered at the start of this year as the disruption due to Covid in 2020-21 meant there was not time to finish them***