Subject:	Physics	Year: 11	Ability: All
	Separate Science		

	Half-term 1		Half-term 2		
Topic	4.5 Forces	4.6 Waves	4.6 Waves	4.7 Magnetism and electromagnetism	
Topic overview **Pupils will learn…**	To categorise forces and apply Newton's laws. To describe both quantitatively and qualitatively motion in a line. To apply a range of formulas in various scenarios. To calculate momentum and apply conservation of momentum (HT).	To describe, with examples, the behaviour and properties of transverse and longitudinal waves. To explain the properties of sound waves and the uses of waves. To explain what happens to waves at the boundary between two different media. To explain the types and properties of electromagnetic waves.	To describe, with examples, the behaviour and properties of transverse and longitudinal waves. To explain the properties of sound waves and the uses of waves. To explain what happens to waves at the boundary between two different media. To explain the types and properties of electromagnetic waves.	To describe the interaction of magnets on each other, magnetic materials and electromagnetic fields. HT: to explain the applications of electromagnetism. To describe and explain how magnets are used in common objects such as electric motors.	Revision and mock exams

Subject:	Physics	Year: 11	Ability: All
	Separate Science		

	Half-term 3	Half-term 4	Half-term 5
Topic	4.7 Magnetism and electromagnetism	4.8 Space Physics. (Physics only)	Revision and mock exams
Topic overview **Pupils will learn…**	To describe the interaction of magnets on each other, magnetic materials and electromagnetic fields. HT: to explain the applications of electromagnetism. To describe and explain how magnets are used in common objects such as electric motors.	To be able to identify components of the solar system. To be to explain the life cycle of sun-like stars and giant stars. To be able to describe orbital motion of natural and artificial satellites. To describe evidence used to support the big bang theory.	