

Year 11 Curriculum Grid

Separate Physics

Year/Term	Unit	Intent
		• Ensure students have a secure understanding of the key concepts of
Curriculum		Physics, building on knowledge from KS3.
purpose		 Encourage students to carry out practical work safely with
		increasing independent skills.
		 Enthuse students with a love of Physics by incorporating a holistic
		approach and relating concepts to actions and behaviours.
Autumn	SP11 - Static	 Explain how an insulator can be charged by friction
	electricity	 Recall that like charges repel and unlike charges attract
	SP12 -Magnetism	 Explain some of the uses and dangers of electrostatic charges
	and the motor effect	 Describe the shape and direction of the electric field
	SP13 -	 Explain the difference between permanent and induced magnets
	Electromagnetic	 Recall that the strength of the field depends on the size of the
	induction	current and the distance from the long straight conductor
		 Explain where and why step-up and step-down transformers are
		used in the transmission of electricity in the national grid
Spring	SP14 - Particle	Students will sit their PPEs at the start of this term
	model	
	SP15 - Forces and	 Use a simple kinetic theory model to explain the different states of
	matter	matter
		 Explain the differences in density between the states of matter
		 Explain ways of reducing unwanted energy transfer
		 Explain the pressure of a gas in terms of the motion of its particles
		 Explain the effect of changing the temperature of a gas
		 Explain that stretching, bending or compressing an object requires
		more than one force
		 Explain why atmospheric pressure varies with height above the
		Earth's surface
		 Describe how pressure in fluids increases with depth and density
Summer	SP1 – SP15 -	Practise examination technique and time management
	Revision	Revisit core practicals and assess understanding
		Prepare for the public examinations
		Students are encouraged to become more reflective of their
		learning through self-assessment of their examination answers
		 Students will have frequent exposure to exam style questioning and
		practice papers
		 Intervention sessions will allow students to revisit topics from Years
		9 and 10 up until the summer examinations