

Curriculum Maps – Year 11
Science: Physics (Separate Sciences)

Overview of the year: In Year 11, you will learn about the remaining topics from Physics and will revise in preparation for your GCSE exams. The Edexcel Physics course has two exams – “Paper 1” and “Paper 2”. During this year, you will continue to learn about the topics which are assessed in “Paper 2” for Physics. Throughout the course there are 8 Core Practicals – these are experiments which you must carry out before you sit your exam.		Ways to consolidate and extend your learning in Physics: Complete your Tassomai daily goal Answer past paper questions from physicsandmathstutor.com Answer questions from your Edexcel Physics textbook and your CGP revision guide Visit museums and scientific centres (all with free entry) are; The Science Museum, National History Museum, Wellcome Collection, Faraday Museum, Anaesthesia Heritage Centre, Kirkaldy Testing Museum, and Horniman Museum.		
Half Term	Unit Title	Knowledge	Skills	Assessment
1	SP8 Energy – Forces Doing Work SP9 Forces and their Effects SP10 Electricity and Circuits	Transferring Energy Forces Diagrams Making and Investigating Circuits	Building electric circuits Rearranging equations Drawing scale diagrams Using a protractor	End of topic tests Phase tests Core Practicals PPEs
2	SP11 Static Electricity SP12 Magnetism and the Motor Effect SP13 Electromagnetic Induction	The Uses and Dangers of Static Electricity Magnets and Magnetic Fields Inducing Magnetic Fields National Grid	Detecting magnetic fields Using Flemings left-hand rule Analysing 3-dimensional problems	End of topic tests Phase tests Core Practicals
3	SP14 The Particle Model SP15 Forces and Matter	States of Matter and Changing States Changing Shapes – Elastic and Inelastic Deformation Pressure and Density	Identification of anomalous results Drawing lines of best fit Use of control variables Using reference points when measuring extensions Calculating the area under a graph	End of topic tests Phase tests Core Practicals
4-5	GCSE Exam Preparation	Topics for revision will be identified based on pupils’ attainment in assessments	Revising effectively Skills from previous units in Y10 and Y11 will be revised and practiced	PPEs GCSE Exams