

Year 12 Physics

Long Term Plan Blank 2017-18

	Tracking and Key Dates	EXAMS	SRD	OGS
04-Sep	Inset Mon&Tues		6.1 Springs & Hooke's Law	2.1 Quantities and units 2.2 Derived units
11-Sep	Data Collection Opens		6.2 Elastic potential energy <b>PAG 2.2 Springs</b>	2.3 Scalar and vector quantities 2.4 Adding vectors
18-Sep	21st Open Evening CRD Deadline		6.3 Deforming materials 6.4 Stress, strain & Young modulus	2.5 Resolving vectors 2.6 More on vectors
25-Sep	Work Scrutiny Week		<b>Testing Week</b>	<b>Testing Week</b>
02-Oct	Appraisal deadline		<b>PAG 2.1 Young modulus</b>	3.1 Distance and speed 3.2 Displacement and velocity
09-Oct	Data Collection Closes		4.1 Force, mass & weight 4.2 Centre of mass	3.3 Acceleration 3.4 More on velocity–time graphs

16-Oct			4.5 Moments 4.6 Couples and torques	3.5 Equations of motion
23-Oct	AUTUMN HALF TERM			
30-Oct	Inset Mon		4.8 Density & pressure 4.9 Archimedes' principle	3.6 Car stopping distances
06-Nov	Data Collection Opens	<b>Year 8 Exam week</b>	5.1 Work done & energy 5.2 Conservation of energy	3.7 Free fall and g PAG1
13-Nov		<b>Year 11 Mock</b>	5.3 Kinetic energy & gpe 5.4 Power & efficiency	3.8 Projectile motion
20-Nov	Observation Week		7.1 Newton's first & third law 7.2 Linear momentum	4.3 Free-body diagrams
27-Nov			Testing Week	Testing Week
04-Dec	Data Collection Closes (Y11)		7.3 Newton's second law 7.4 Impulse	4.4 Drag and terminal velocity

11-Dec	Data Collection Closes		7.5 Collisions in two dimensions	4.7 Triangle of forces
18-Dec	School Finishes 19th Dec			
25-Dec	CHRISTMAS			
01-Jan	School Resumes 3rd Jan	<b>Year 12-13 Mock</b>	<b>Year 12-13 Mock</b>	<b>Year 12-13 Mock</b>
08-Jan	Year 10 Work Experience		11.1 Progressive waves 11.2 Wave properties	8.1 Charge and current 8.2 Moving charges
15-Jan	Work Scrutiny Week		11.3 Reflection & refraction 11.4 Diffraction and polarisation	8.3 Kirchhoff's first law 8.4 Mean drift velocity
22-Jan	Data Collection Closes (Y12&13)		11.5 Intensity 11.6 EM waves	9.1 Circuit symbols 9.2 Potential difference and electromotive force
29-Jan	Data Collection Closes		11.7 Polarisation of EM waves <b>PAG 6.3 Exp with polarisation</b> 11.8 Refractive index	9.3 The electron gun 9.4 Resistance
05-Feb			11.9 Total internal reflection	9.5 I-V characteristics 9.6 Diodes

12-Feb	SPRING HALF TERM			
19-Feb			12.1 Superposition of waves 12.2 Interference	9.7 Resistance and resistivity 9.8 The thermistor
26-Feb	Observation Week Data collection Opens		12.3 The Young double-slit exp <b>PAG 5.1 Diffraction grating</b>	9.9 The LDR 9.10 Electrical energy and power 9.11 Paying for electricity
05-Mar		<b>MOCKS 11-13</b>		
12-Mar		<b>MOCKS 11-13</b>		
19-Mar	Data collection Yr11-13		12.4 Stationary waves 12.5 Harmonics	10.1 Kirchhoff's laws and circuits 10.2 Combining resistors
26-Mar	Data Collection Closes Yr 7-10 School Finishes 29th Mar		12.6 Stationary waves in air columns <b>PAG 5.2 Resonance tube</b>	10.3 Analysing circuits 10.4 Internal resistance
02-Apr	EASTER			

09-Apr				
16-Apr			13.1 The photon model 13.2 The photoelectric effect	10.5 Potential divider circuits 10.6 Sensing circuits
23-Apr	Data Collection Opens		13.3 Einstein's photoelectric effect equation <b>PAG 6.1 Determining Planck constant</b>	
30-Apr			13.4 Wave - particle duality	
07-May				
14-May	Data Collection Closes		15th (am) - Breadth in Physics 18th (am) - Depth in Physics	
21-May				
28-May	SUMMER HALF TERM			

04-Jun		<b>Year 7 Exams</b>		
11-Jun	Data Collection Opens			
18-Jun				
25-Jun		<b>Year 10 Exams</b>		
02-Jul		<b>Year 9 Exams</b>	<b>Testing Week</b>	
09-Jul				
16-Jul	Data Collection Closes Yr 7-10 and BTEC School Finishes 20th July			