

HALF TERM

CHRISTMAS

Assessment Opportunities	End of Topic Tests and Autumn Term Assessment	
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Spring Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	HALF TERM
Topic	P5 Forces						
Challenge Objective and Content (for all learners)	P5 -Identify and measure forces acting on objects. -Describe the differences between contact and non-contact forces. -MS 3b,c Calculate weight and work done. -MS1c, WS 4.5 Convert between newton-meters and joules. -RP6 Investigate the link between force and extension with springs. -MS 3c Describe a moment as a turning force and be able to calculate moment using force and distance. -Express a displacement in terms of magnitude and direction. -MS 3b, c Calculate speed using distance travelled and time. -Draw and interpret velocity time graphs. -Apply Newton's Laws.						
Inspire Opportunities	P5 - Determine speed, acceleration and distance from multiple graphs using mathematical tools such as area under line and gradient.						
Assessment Opportunities	End of Topic Tests						

	Week 1	Week 2	Week 3	Week 4	Week 5	EASTER
Topic	P6 – Waves					
Challenge Objective and Content (for all learners)	Show how changes in velocity, frequency and wavelength, in transmission of sound waves from one medium to another, are inter-related -Provide examples of transfers of energy by electromagnetic waves - Explain the uses and dangers of electromagnetic waves.					
Inspire Opportunities	Explain that a perfect black body is an object that absorbs all of the radiation that hits it. No radiation is reflected or transmitted.					
Assessment Opportunities	End of Topic Tests and Spring Term Assessment					

Summer Term

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	HALF TERM
Topic	P6 – Waves		Revision		Year 10 Mock Exams		
Challenge Objective and Content (for all learners)	Show how changes in velocity, frequency and wavelength, in transmission of sound waves from one medium to another, are inter-related -Provide examples of transfers of energy by electromagnetic waves - Explain the uses and dangers of electromagnetic waves.		Physics Paper 1 Revision P1 Energy P2 Electricity P3 Particle Model of Matter P4 Atomic Structure				
Inspire Opportunities	Explain that a perfect black body is an object that absorbs all of the radiation that hits it. No radiation is reflected or transmitted.		Grade 7-9 questions.				
Assessment Opportunities	End of Topic Tests and Year 10 Mock Exam						

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	SUMMER
Topic	P6 – Waves						
Challenge Objective and Content (for all learners)	Show how changes in velocity, frequency and wavelength, in transmission of sound waves from one medium to another, are inter-related -Provide examples of transfers of energy by electromagnetic waves - Explain the uses and dangers of electromagnetic waves.						
Inspire Opportunities	Explain that a perfect black body is an object that absorbs all of the radiation that hits it. No radiation is reflected or transmitted.						
Assessment Opportunities	End of Topic Tests						