

Subject	Year		Term
Physics	13		2
Торіс			
Topic 13 SHM			
Content (Intent)			
Prior Learning (Topic) Topic 5 (waves)			
Conditions for simple harmonic motion			
Equations of shm:			
$a = -\omega^2 x, x = A\cos \omega t, v = A\omega \sin \omega t,$			
$T = \frac{1}{f} = \frac{2\pi}{\omega}$ and $\omega = 2\pi f$.			
Displacement-time and velocity-time graphical variations for an oscillating object			
Equation for a simple harmonic oscillator			
$T=2\pi\sqrt{rac{m}{k}}$ and a simple pendulum $T=2\pi\sqrt{rac{l}{g}}$.			
Resonance			
Free and forced oscillations			
Damping			
the oscillation of known masses.			
How will knowledge and skills be taught?		How will your understanding be assessed &	
(Implementation)		recorded (Impact)	
Use of motion sensor to obtain displacement-		Homework Booklet 13 marked and written	
Oscillating mass on a spring and simple		Teedback given	
pendulum experiments.		Test 15 marked, graded and reedback given	
Demonstration: Barton's pendulums			
pendulum with a paper cone around the bob.			
All students should carry out this experiment.			
How can parents help at home?			
Check that the homework booklet 13 is completed			
Helpful further reading/discu	Vacabulary Lists		Canagara Linka
Advanced Physics for you	See front of homework		
chapter	booklet		
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