

PRT Task

PRT T

Year 11 Physics (separate)



Learning Programme 3		
The LORIC skill focus for his LP is: RESILIENCE		Literacy:
The Moral Virtues focus for this LP are: RESPECT and JUSTICE		Capital letters must be used at the start
Respect - treat others how you would wish to be treated yourself.		of sentences and for the first letter of
Justice - our College rules are fair and reasonable.		proper nouns
What will I be learning about in this Learning Programme?		sentence
Forces and their effects		Question marks must be used at the
Waves		end of a question
		Apostrophes should only be used for
Where have I seen this learning before?		 Days of the week and months must be
You have explored basic forces and motion at KS3 and in primary school.		spelled correctly
During LP1 and 2 we studied forces and we will be further developing this understanding. You have explored the basics of waves at KS3		Key words must be spelled correctly
What could I use it for?		
Understanding forces is crucial for mechanical and civil engineering, sport, building/construction, astrophysics and architecture. Understanding waves is crucial for electronics, astrophysics and astronomy.		
In LP3.1, I will know: 06/01/25 - (WK 2)	Key Vocabulary	Homework
How to analyse motion graphs, including distance-time and velocity-time graphs;		Acceleration worksheet
how to explain Newton's Laws and recognise examples of Newton's 1st and 3rd law in action;	Displacement	
how to describe the relationship between Force, mass and acceleration - Newtons 2nd Law.	Velocity	
	Acceleration	
In LP3.2, I will know: 13/01/25 - (WK 1)	Key Vocabulary	Homework
How to explain why an object reaches terminal velocity in terms of the forces involved and acceleration;		Terminal velocity exam question
how to investigate the acceleration of an object by varying the force or mass;		
how to describe and explain the factors that affect both thinking distance and braking distance. Describe an experiment used to	Terminal velocity	
estimate reaction times.		
In LP3.3, I will know: 20/01/25 - (WK 2)	Key Vocabulary	Homework
How to interpret graphs of stopping distances. Estimate the forces required to produce a deceleration on a typical road, and the		Revision
distance required for road vehicles to stop in an emergency;		
now to define momentum, apply and rearrange the equation p=mv and describe the conservation of momentum in closed systems (collisions or evaluations)	Momentum	
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