



Year 13 Mathematics - Mechanics **Learning Programme 4**

The LODIC skill feet of feet his LD in INITIATIVE		Litoragu
The LORIC skill focus for his LP is: INITIATIVE.		Literacy: • Capital letters must be used at the start
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.		of sentences and for the first letter of
Integrity - Having strong moral principles.		proper nouns
Gratitude - Feeling and expressing thanks.		Full stops must be used at the end of a
What will I be learning about in this Learning Programme?		sentence
In LP4 I will be learning about moments, friction, resolving forces and projectiles.		Question marks must be used at the
		end of a question
		Apostrophes should only be used for
MM		possession or omission
Where have I seen this learning before?		Days of the week and months must be spelled correctly
Yr12: basic mechanics, equilibrium, resolving forces and equations of motion.		Key words must be spelled correctly
		ney words must be spened correctly
What could I use it for?		
The knowledge and skills I will learn in this learning programme will allow me to solve kinematics problems. This knowledge is vital in care	ers such as	
engineering.		
	Key Vocabulary	Homework
how to solve problems involving moments;		Targeted Exam Paper Practice
how to calculate resultant moments;		
how to solve problems involving equilibrium.	Moment	
In LP4.2, I will know: 17/03/25 - (WK 1)	Key Vocabulary	Homework
how to resolve forces on inclined planes;	ic, rocavaiai,	Targeted Exam Paper Practice
how to solve problems involving friction.		
	Friction	
	Key Vocabulary	Homework
how to find horizontal and vertical components of projectile motion;		Targeted Exam Paper Practice
how to solve projectile problems at any angle.		
	Projectile	
Extended Task.		
	Key Vocabulary	Homework
how to solve problems involving static particles; including on inclined planes;	ic, rodawaia.,	Targeted Exam Paper Practice
how to solve problems involving dynamics; including on inclined planes;		
how solve connected particle problems.	Tension	
	Key Vocabulary	Homework
how to solve vectors problems with projectiles;	Key Vocabulary	Homework Targeted Exam Paper Practice
how to solve vectors problems with projectiles;	Key Vocabulary Acceleration	
how to solve vectors problems with projectiles;		
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions.	Acceleration	Targeted Exam Paper Practice
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions.		
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions. In LP4.6, I will know: 28/04/25 - (WK 1)	Acceleration	Targeted Exam Paper Practice Homework
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions. In LP4.6, I will know: 28/04/25 - (WK 1)	Acceleration	Targeted Exam Paper Practice Homework
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions. In LP4.6, I will know: 28/04/25 - (WK 1)	Acceleration Key Vocabulary	Targeted Exam Paper Practice Homework
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions. In LP4.6, I will know: 28/04/25 - (WK 1)	Acceleration Key Vocabulary	Targeted Exam Paper Practice Homework
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions. In LP4.6, I will know: how to apply all knowledge acquired so far to exam questions Extended Task.	Acceleration Key Vocabulary	Targeted Exam Paper Practice Homework
how to solve vectors problems with projectiles; how to use calculus to solve variable acceleration problems in two dimensions. In LP4.6, I will know: how to apply all knowledge acquired so far to exam questions Extended Task.	Acceleration Key Vocabulary Revision	Targeted Exam Paper Practice Homework Targeted Exam Paper Practice



Use your knowledge organisers to support with revision and recall. Here are some online resources to further support you in your Mathematics revision beyond the classroom. All weekly homework tasks area based on the exercises from the book. In addition to homework, Pupils should use questions not used in class plus the review exercises to help support learning from outside the classroom. Online Resource for homework and exam practice: https://www.drfrostmaths.com/. Topic based exam questions - https://www.mathsgenie.co.uk/

Revision

FFET Award Challenge for this Learning Programme:Create a revision mind/map or poster of any of the Pure Maths chapters.