

Year 9 KS3 Science

Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION. The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself. What will I be learning about in this Learning Programme? Describing motion, speed and the quantitative relationship between average speed, distance and time (speed = distance ÷ time), the representation of a journey on a distance-time graph and relative motion of trains and cars passing one another. Where have I seen this learning before? KS2 Forces and KS3 forces What could I use it for? GCSE science: forces and motion, how forces impact movement of objects and car safety features.			Literacy: <ul style="list-style-type: none">• Capital letters must be used at the start of sentences and for the first letter of proper nouns• Full stops must be used at the end of a sentence• Question marks must be used at the end of a question• Apostrophes should only be used for possession or omission• Days of the week and months must be spelled correctly• Key words must be spelled correctly
In LP5.1, I will know:	12/05/25 - (WK 1)	Key Vocabulary	Homework
how to analyse results of density practical and draw a graph; how to explain that internal energy is the total kinetic energy and potential energy of all the particles that make up a system; how to explain the difference between scalar and vector quantities, with examples.		scalar	Learn spellings
In LP5.2, I will know:	19/05/25 - (WK 2)	Key Vocabulary	Homework
how to practice increased difficulty $s=d/t$ equation with multiple examples; how to draw and interpret distance/time graphs; how to explain the difference between acceleration and deceleration.		speed	Learn definitions
LP5 RLW, I will: 02/06/25 - (WK 1)			
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.			Knowledge organiser flipper
In LP5.3, I will know:	09/05/25 - (WK 2)	Key Vocabulary	Homework
how to investigate the acceleration of an object; how to explain how to use a velocity time graph to deduce whether or not accelerating or decelerating; how to explain how resultant forces acting on an object change. Extended Task.		acceleration	KS3 exam question
In LP5.4, I will know:	16/06/25 - (WK 1)	Key Vocabulary	Homework
how to revise LP4 content for summative assessment; how to complete summative assessment; my strengths and areas of development.			Revision task
In LP5.5, I will know:	23/06/25 - (WK 2)	Key Vocabulary	Homework
how to analyse why parachutes can reduce terminal velocity; how to analyse results of terminal velocity practical and draw a graph; how to explain what can increase or decrease the stopping distance of a vehicle;		terminal velocity	KS3 exam question
In LP5.6, I will know:	30/06/25 - (WK 1)	Key Vocabulary	Homework
how to explain what can increase or decrease the stopping distance of a vehicle; how to understand what relative motion is; how to describe what momentum means for a closed system. Extended Task.		stopping distance	Keyword definition review
In LP5.7, I will know:	07/06/25 - (WK 2)	Key Vocabulary	Homework
how to explain that momentum is conserved in a collision; how to understand that the time taken for a complete stop reduces impact; how to describe how safety features in cars reduce the risk of injury.		car safety	Literacy numeracy task
Resources to support learning: Booklet, Knowledge organiser, BBC bitesize, Synergy and KS3 revision resources.			
FFET Award Challenge for this Learning Programme: Design a resource about stopping distances in cars. Speak to parents/carers about the highway code and explain what factors increase/decrease stopping distances in cars.			

