



Year 9 Science

Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION. Literacy: Capital letters must be used at the start The Moral Virtues focus for this LP are: COURAGE and HUMILITY. of sentences and for the first letter of Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself. • Full stops must be used at the end of a What will I be learning about in this Learning Programme? sentence Describing motion, speed and the quantitative relationship between average speed, distance and time (speed = distance ÷ time), the representation of a Question marks must be used at the journey on a distance-time graph and relative motion of trains and cars passing one another. end of a question · Apostrophes should only be used for possession or omission Where have I seen this learning before? Days of the week and months must be KS2 Forces and KS3 forces spelled correctly Key words must be spelled correctly What could I use it for? GCSE science: forces and motion, how forces impact movement of objects and car safety features. 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. 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. Learn definitions how to investigate the acceleration of an object; how to explain how to use a velocity time graph to <mark>deduce whether or not acc</mark>elerating or decelerating; how to explain how resultant forces acting on an object change. Acceleration Knowledge organiser flipper. Extended Task. 10/06/24 - (WK 2) n LP5.4. I will k 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 guestion 17/06/24 - (WK 1) how to revise LP1 content for summative assessment; how to revise LP2 content for summative assessment: how to revise LP3 content for summative assessment. Revision Revision task low to revise LP4 content for summative assessment; low to complete summative assessment; my strengths and areas of development. KS3 Exam question Assessment Extended Task. 01/07/24 - (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. Stopping distance Keyword/definition review 08/07/24 - (WK 2) Key Vocabulary how to explain that momentum is conserved in a collision;



Booklet, Knowledge organiser, BBC bitesize, MS TEAMS and KS3 revision resources.

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

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.

Car safety

Literacy and numeracy task.