











Curriculum Overview for Physics

Year 11

<p>Half Term 1: Forces and motion</p> <p>Substantive Knowledge: Define vectors and scalars label the motion on a distance time graph recall equation for speed recall acceleration equation label the motion on a velocity time graph identify common forces. Describe and identify contact and non-contact forces. define mass and weight recall newtons three laws</p> <p>Disciplinary Knowledge: Calculate speed from a distance time graph calculate acceleration from a velocity time graph draw a force diagram calculate the resultant force in a situation calculate weight.</p>		Skim and Scan of source information Decoding terms Etymology of key terms
		Scalar, Vector, Speed, Velocity Acceleration, Force, Contact Force, Noncontact Force, Force diagram
		Recall questions to start every lesson Recall test Review sheet
		Revision Card preparation Recall test Repetition of use of revision cards for review sheets and recall tests and for termly exams.
<p>Half Term 2: Motion and forces</p> <p>Substantive Knowledge: describe the method to measure the acceleration of a object when you change the mass or force on the object. recall the definition of stopping distance describe what affect braking and thinking distance. describe how the time of a collision affects the force exerted. recall the equation for momentum.</p> <p>Disciplinary Knowledge: calculate the force the causes acceleration. calaulate moment of and object calculate the momentum of an object in a collision.</p>		Skim and Scan of source information Decoding terms Etymology of key terms
		Newtons laws, Mass, Weight, Stopping distance, Thinking distance, Braking distance Momentum (H), Collision
		Recall questions to start every lesson Recall test Review sheet
		Revision Card preparation Recall test Repetition of use of revision cards for review sheets and recall tests and for termly exams.