



HALF TERM 5 Apr-May	Week 1 W/C 18 th April (1)	Week 2 W/C 25 th April (2)	Week 3 W/C 2nd May (2)	Week 4 W/C 9 th May (2)	Week 5 W/C 16th May (1)	Week 6 W/C 23rd May (2)
Units	Teaching Preparation & Review of Units	Teaching Preparation & Assessment of units	Teaching Preparation & Review of Units	Teaching Preparation & Assessment of Units	Teaching Preparation & Review of Units	Assessments and the start of the School Moderation process
:-Pure	Teaching Preparation & Review of Units	Teaching Preparation & Assessment of units	Teaching Preparation & Review of Units	Teaching Preparation & Assessment of Units	Teaching Preparation & Review of Units	Assessments and the start of the School Moderation process
:-Statistics	Teaching Preparation & Review of Units	Teaching Preparation & Assessment of units	Teaching Preparation & Review of Units	Teaching Preparation & Assessment of Units	Teaching Preparation & Review of Units	Assessments and the start of the School Moderation process
:-Mechanics	Vectors	Vectors	Vectors	Vectors	Kinematics in one dimension	Kinematics in one dimension
Topics to be Reviewed.	<p>Pure</p> <ul style="list-style-type: none"> Algebraic manipulation Polynomials and the Binomial Theorem Differentiation Integration Trigonometry Exponentials and Logarithms Argument and Proof <p>Statistics</p> <ul style="list-style-type: none"> Sampling Central tendency and spread Single-variable data Bivariate data Probability Binomial distribution Formulating a test The critical region <p>Mechanics</p> <p>Use vectors in two dimensions. Calculate the magnitude and direction of a vector and convert between component form and magnitude/direction form. Add vectors diagrammatically and perform the algebraic operations of vector addition and multiplication by scalars, and understand their geometrical interpretations. Understand and use position vectors; calculate the distance between two points represented by position vectors. Use vectors to solve problems in pure mathematics and in context, including forces. Kinematics in one dimension: Understand and use fundamental quantities and units in the S.I. system: length, time, mass. Understand and use derived quantities and units: velocity, acceleration, force, weight. Understand, interpret and extract information from diagrams and construct mathematical diagrams to solve problems, including in mechanics. Translate a situation in context into a mathematical model, making simplifying assumptions. Understand that a mathematical model can be refined by considering its outputs and simplifying assumptions. Understand and use modelling assumptions. Understand and use the language of kinematics: position; displacement; distance travelled; velocity; speed; acceleration. Understand, use and interpret graphs in kinematics for motion in a straight line: displacement against time and interpretation of</p>					

		<p>gradient; velocity against time and interpretation of gradient and area under the graph. Evaluate, including by making reasoned estimates, the limitations of solutions. Use a mathematical model with suitable inputs to engage with and explore situations (for a given model or a model constructed or selected by the student). Interpret the outputs of a mathematical model in the context of the original situation (for a given model or a model constructed or selected by the student). Understand that a mathematical model can be refined by considering its outputs and simplifying assumptions. Understand, use and derive the formulae for constant acceleration for motion in a straight line. Use a mathematical model with suitable inputs to engage with and explore situations (for a given model or a model constructed or selected by the student). Interpret the outputs of a mathematical model in the context of the original situation (for a given model or a model constructed or selected by the student). Use calculus in kinematics for motion in a straight line: $v = dr/dt$, $a = dv/dt$, $r = \int v dt$, $a = \int v dt$.</p>
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