



Half Term 2 Subject Overviews: What your child has been learning this half term

Head of year: Mr C Pattinson

Y12

<p>English Literature</p> <ul style="list-style-type: none"> Frankenstein Poems of the decade Understanding features of genre and conventions in poetry Understanding different ways of reading texts How writers use and adapt language, form and structure in texts 	<p>Maths (Pure)</p> <ul style="list-style-type: none"> Trigonometric ratios Sketching graphs of sin/cos/tan CAST diagram Trig identities Vectors in 2D Scalars Ratio theorem Comparing coefficients Differentiation Gradients of tangents and normals Modelling differentiation 	<p>Maths (Applied)</p> <ul style="list-style-type: none"> Discrete probability distributions Discrete uniform distribution Binomial distribution Cumulative probabilities Probability mass functions Using calculator to find individual or cumulative binomial probabilities 	<p>Biology</p> <ul style="list-style-type: none"> Structure of nucleotides Forming and breaking phosphodiesters Structure of DNA Semi-conservative replication Genetic code Transcription and translation Role of membranes Fluid mosaic model Osmosis and diffusion Enzymes as catalysts Mechanisms of enzyme Enzyme inhibitors 	<p>Chemistry</p> <ul style="list-style-type: none"> Acid-base titrations Oxidation numbers Redox Electronegativity Hydrogen bonding Structure and bonding in covalent compounds Periodic table Ionisation energies Metallic bonding Variations in melting points Application of IUPAC Types of formulae 	<p>Physics</p> <ul style="list-style-type: none"> Conduction and resistance Semiconductors Series and parallel circuits Electrical circuit rules Potential dividers Emf and internal resistance Power in electric circuits Refraction Total internal reflection Lenses Image formation polarisation 	<p>Applied Science</p> <ul style="list-style-type: none"> Specialised cells Structure and function of the blood Pulmonary system Cardiovascular and respiratory disease Intermolecular forces Acid-base titrations Properties of period 2 and 3 Diffraction and superposition Industrial application Calculating speed of waves on a string 	<p>Geography</p> <ul style="list-style-type: none"> Ecosystems and sustainability Ecosystems and processes Biomes Ecosystems in the British Isles over time 	<p>History</p> <ul style="list-style-type: none"> The creation of the Nazi state Churchill Churchills view of events 1929-1934 Why Churchill was out of office Churchills attitude to the abdication, the Empire and India Churchill as a wartime Prime Minister
<p>Mr Barlow</p>	<p>Miss Wright</p>		<p>Mrs Poddington</p>			<p>Mrs Bradley</p>	<p>Mr Rainsley</p>	
<p>Art</p>	<p>CAMB TECH PE</p>	<p>A LEVEL PE</p>	<p>ICT</p>	<p>RE</p>	<p>French</p>	<p>Personal Development</p>	<p>Music</p>	<p>Health & Social Care</p>
<ul style="list-style-type: none"> A sense of place Portraiture Landscape Drawing Analysis of context Proportion Observation Colour theory Composition Mixed media Photography Photoshop Typography Graphic design 	<ul style="list-style-type: none"> Synovial joints Muscle functions Muscular contractions Structure of muscle fibres Fibre types & performance Applying skills, techniques & tactics to a team sport Applying skills, techniques & tactics to an individual 	<ul style="list-style-type: none"> NEA written analysis Applied anatomy & physiology; Cardiovascular system Sport psychology; Personality Sport psychology; Self-efficacy & confidence Sport psychology; Anxiety Sport in society; Industrial & post industrial Sport in society; Post WW2 	<ul style="list-style-type: none"> Understanding business IT systems Types of servers Virtualisation Network characteristics 	<ul style="list-style-type: none"> Philosophical language of soul, mind & body in the thinking of Plato & Aristotle Metaphysics of consciousness Fletcher's situation ethics (agape, the six propositions, four working principles & conscience) Christian teaching on heaven, hell, purgatory and election 	<ul style="list-style-type: none"> Different types of modern family Changes in relationship and marriage Concerns and problems within the family French educational system Expectations of pupils and how they deal with them 	<p>"A Call to Social Action" Project</p> <ul style="list-style-type: none"> Presentation to a panel of local judges, with one group awarded as the "Social Action Champion." £400 of Dreamscheme money awarded to the winning group for project implementation. Development of employability skills Fostering positive relationships, personal and social development, raising aspirations, and building resilience through mentorship. 	<ul style="list-style-type: none"> The set musical works of Hayden, Beethoven and Mozart Classical instrumental music Concert overture Symphonic poem Programme symphony Soloworks 	<ul style="list-style-type: none"> Relationships in HSC or child care environments Factors that influence the building of relationships The cardiovascular system, malfunctions and their impact on individuals The respiratory system, malfunctions and their impact on individuals Types of dementia and the impact of diagnosis on individual Legislation and frameworks which support the care of individuals with dementia
<p>Miss Norman</p>	<p>Miss Smith</p>		<p>Ms Cooper</p>	<p>Miss Holliday</p>	<p>Mr Machard</p>	<p>Miss Holliday</p>	<p>Mr Newton</p>	<p>Mrs Fisher</p>