



Half Term 3 Subject Overviews: What your child has been learning this half term

Head of year: Mr C Pattinson

Y12

English Literature	Maths (Pure)	Maths (Applied)	Biology	Chemistry	Physics	Applied Science	Geography	History
<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 	<ul style="list-style-type: none"> Exponential functions Exponential modelling Inverse of exponential functions are called logarithms Laws of logarithms Solving equations with logarithms Natural logarithms Logarithms & non-linear data Plot log y against log x Indefinite integration Integration of xn Areas under curves 	<ul style="list-style-type: none"> Hypothesis testing Null & alternative hypotheses Significance levels Critical values of a binomial distribution One-tailed tests & two-tailed tests Critical region & acceptance region 	<ul style="list-style-type: none"> Cell cycle Stages of mitosis Mitosis in life cycles Stages of meiosis Organisation of cells Stem cells Erythrocytes and neutrophils Specialised exchange surfaces Efficient surfaces Mammalian gas exchange system Ventilation in mammals Spirometry 	<ul style="list-style-type: none"> Velocity and acceleration Motion graphs Adding forces Moments Newton's Laws of Motion Kinematics equations Wave-particle duality The photoelectric effect Electron diffraction and interference Atomic electron energies 	<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 	<ul style="list-style-type: none"> ECG traces Nervous system Neurones, axons & synapses Brain structure Chemicals in the brain Variable oxidation states Covalent bonding Bonding and structure investigation Reactions of metals & acids Refractive index Total internal reflection Critical angle Inverse square law 	<ul style="list-style-type: none"> Coastal management Quantitative and qualitative skills Case studies Fieldwork Urbanisation Urban forms Social & economic issues with urbanization Urban climate & drainage Waste & disposal Contemporary urban environmental issues Sustainable urban development 	<ul style="list-style-type: none"> Conservative domination 1951-1964 Labour & Conservative governments 1964-1979 Thatcher & the end of consensus 1979-1997 Britain's position in the world 1951-1997
Mr Barlow	Miss Wright		Mrs Poddington			Mrs Bradley	Mr Rainsley	
Art	CAMB TECH PE	A LEVEL PE	ICT	RE	French	Personal Development	Music	Health & Social Care
<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"> Heart structures Heart roles Stroke volume, heart rate & cardiac output Blood vessels Functions of blood Vascular shunt Purpose of events SMART targets Risk assessments Contingency plans Promotional material Resourcing Objectives Analysis & evaluation Communication, feedback & guidance Applying skills, tactics & techniques to sports 	<ul style="list-style-type: none"> NEA written analysis NEA evaluation cause Respiratory system Energy systems Arousal Stress management Social facilitation Attribution theory Achievement motivation Post World War 2 Impact of sport on society and of society on sport 	<ul style="list-style-type: none"> Employability & communication skills used in an IT environment Verbal & non-verbal communication Barriers to communication Communication technology Personal attributes Ready for work Job roles 	<ul style="list-style-type: none"> The teleological argument The cosmological argument Challenges to arguments from observation Sanctity of life Quality of life Voluntary euthanasia Non-voluntary euthanasia Natural knowledge of God's existence Revealed knowledge of God's existence 	<ul style="list-style-type: none"> Contemporary francophone music Development of francophone music Influence of music in modern society Freedom of the Press Influence of the Internet on the written press Effects of media & new technology How Christmas and other religious festivals are changing in France Influence of other cultures on festivals in France 	<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"> Performance Preparatory work Practice recital in front of class of planned Composition Preparatory work Composition workshop Continuation of Haydn Introduction to Popular Song – Blues, Jazz, Swing and Big Band 	<ul style="list-style-type: none"> Person-centred approaches to build positive relationships in HSC settings Effective communication skills to build positive relationships within HSC settings Digestive system & their malfunctions Supporting individuals with dementia to plan their care and support
Miss Norman	Miss Smith		Ms Cooper	Miss Holliday	Mr Machard	Miss Holliday	Mr Newton	Mrs Fisher