



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

Head of year: Mr C Pattinson

Y13

English Language	English Literature	Maths (Pure)	Maths (Applied)	Biology	Chemistry	Physics	Applied Science	Geography	History
<ul style="list-style-type: none"> • Methods of language analysis • Coherent written expression • Concepts and issues relevant to language use • Analysing and evaluating how contextual factors and language features are associated with the construction of meaning • Exploring connections across texts 	<ul style="list-style-type: none"> • Othello • NEA coursework component • How playwrights use dramatic forms to shape meaning in drama texts and evoke audience responses • Making connections between a range of literary texts and exploring relationships between texts 	<ul style="list-style-type: none"> • Locating roots of functions • Approximate solutions using iterative Newton-Raphson method • 3D coordinates • 3D vectors • Finding angles between 3D vectors • Integration by parts • Integration of algebraic fractions • Cartesian & Parametric form • Trapezium rule 	<ul style="list-style-type: none"> • Equilibrium & concurrent forces • Resultant force • Coplanar forces • Statics • Newton's second law • Equation of motion in 1D and 2Ds • Formulate equations for connected particles • Vectors for displacement, velocity and acceleration • Calculus with harder functions 	<ul style="list-style-type: none"> • Biological classification • Binomial system • 3 domains of life • Classification and phylogeny • Evolution • Types of variation • Statistics and variation • Adaptation • Respiratory substrates • Phagocytes • B and T lymphocytes • Pathogens • Opsonins, agglutinins and anti-toxins • Active & passive immunity 	<ul style="list-style-type: none"> • Bronsted-Lowry • Acid dissociation constant • pH logs • Enthalpy change • Ionic charge effect • Using oxidising and reducing agents • Redox equations • Oxidation numbers • Nucleophilic addition • Detecting carbonyls • Detecting aldehydes • Reactions of carboxylic acids • Esterification • Hydrolysis of esters • Using acyl chlorides 	<ul style="list-style-type: none"> • Capacitor basics • Charging and discharging capacitors • Capacitor maths • Magnetic fields • Electric motors • Magnetic forces • Generating electricity • Alternating current • Simple harmonic motion • SHM maths • SHM energy • Resonance and damping 	<ul style="list-style-type: none"> • Factors affecting rate of diffusion • Brownian motion • Factors affecting plant growth – biotic and abiotic factors • Sampling techniques • Plant sampling • Fuels • Combustion • SHC • Energy ratings • Analysing electricity bills • SHC 	<ul style="list-style-type: none"> • Ecosystems in the British Isles over time • Marine ecosystems • Local ecosystems • Case studies • The global commons • Antarctica as a global common • Globalisation critique • Fieldwork 	<ul style="list-style-type: none"> • Who were the Tudors? • The main causes of rebellion and disorder • The frequency and nature of disturbances • The impact of disturbances on Tudor government • The maintenance of political stability • Personal study coursework
Mr Bird		Miss Wright		Mrs Poddington				Mrs Bradley	Mr Rainsley
Art	Photography	CAMB TECH PE	ICT	RE	French	Personal Development	Music	Health & Social Care (Single)	Health & Social Care (Double)
<ul style="list-style-type: none"> • Student led project • Personal portfolio • Drawing • Analysis of context • Proportion • Observation • Colour theory • Composition • Mixed media • Use of photoshop • Typography • Graphic design 	<ul style="list-style-type: none"> • Student led project • Personal portfolio • Analysis of context • Proportion • Observation • Colour theory • Composition • Mixed media • Use of photoshop • Typography • Graphic design 	<ul style="list-style-type: none"> • Sports development • Sport development continuum • Participation targets • Promotional values • Social benefits • Self assessment • Peer assessment • Classification of skills • Measuring improvement • Participant needs • Applying skills, techniques & tactics to an individual sport • Applying skills, techniques & tactics to a team sport 	<ul style="list-style-type: none"> • The project life cycle • Initiate and plan projects • Execute projects • Evaluate projects • Technological developments in body/ health, home/ garden, city/ neighbourhood 	<ul style="list-style-type: none"> • Nature of God • Omnipotence • Omniscience • (Omni)benevolence; eternity, free will • The development of contemporary multi-faith societies • Christian responses to interfaith dialogue • Christian responses to the scriptural reasoning movement 	<ul style="list-style-type: none"> • The experience of immigrants in France • Immigrant entrepreneurs and workers within the economy • The contribution of immigrants to arts and culture • Immigrants and local people share their experiences, positive and negative 	<ul style="list-style-type: none"> • Sex and media • Sex: readiness and encounters • Controlling relationships • Ageism & prejudice 	<ul style="list-style-type: none"> • Performance preparatory work • Composition • Researching the board set brief • Development of understanding of Haydn, Mozart and Beethoven • Introduction to Jazz 	<ul style="list-style-type: none"> • Relationships in health, social care or child care environments • The factors that influence the building of relationships • Potential hazards in health, social care and child care environments • Legislation, policies and procedures promote health, safety and security in health, social care and child care environments 	<ul style="list-style-type: none"> • Personalisation in health and social care • What is meant by a person-centred approach to care • Types and signs of abuse • Factors which may lead to abusive situations • Legislation, regulatory requirements and guidance which govern the safeguarding of adults, young people and children
Miss Norman		Mr Smith	Ms Cooper	Miss Holliday	Mr Machard	Miss Holliday	Mr Newton	Mrs Fisher	