CURRICULUM OVERVIEW YEAR 12 & 13



Educational excellence for our City

At King Edward VI Aston School we believe that the curriculum is the key driver of progress for all students. On leaving the school we expect Aston students to be articulate, well-rounded and well-educated young men who understand the importance of our core values. The curriculum will enable all learners to become independent thinkers with the confidence and resilience to thrive in the 21st century.

Achievement	Enjoyment	Personal development
through the taught curriculum	through the enriched curriculum	through our shared values
The curriculum will have a general ethos of	Students will have access to a varied	Honesty will drive students" sense of a
embracing challenge, high expectations	range of extra-curricular clubs, groups and	moral purpose and encourage clarity of
and deeper learning.	teams, both within and beyond the core	thought and deed.
Learning will often go beyond the	day.	Diligence will drive students' collective
specification and challenge students to	• Through student leadership and council,	understanding of the benefits to be derived
think tangentially.	students will offer reasoned views about	from hard work and collaboration.
 Departments will provide a broad and 	moral and ethical issues	 Kindness will improve students'

Success at Aston rests on three core pillars:

creative curriculum which regularly interleaves prior learning into current learning.

- Students will regularly contribute excellent ideas and questions in class, where there is an overwhelming culture of academic achievement; aspiration is seen as the norm.
- Students will take pride in representing their school at all levels.
- Students will choose to participate in curriculum enhancement opportunities on alternate Thursday afternoons.
- There will be a rich and varied programme of educational visits for all.

understanding of different faiths, cultures and orientations.

 Integrity will help students understand the importance of values-based decision making.

Year 12 Autumn Term Curriculum Overview		
Subject	Autumn 1	Autumn 2
Art	Food - Recording Develop observational drawing skills from primary and secondary resources Develop a range of mixed media skills To understand how to carry out practical experimentation across disciplines	
Biology	 Biological Molecules To understand that at a cellular level all living things contain only a few groups of evidence for evolution. Cells To understand that cell theory is a unifying concept in biology. 	f compounds that interact in similar ways. To understand that this biochemistry is
	Amount of substance Be able to apply equations to calculate moles, masses, volumes and concentrations in relation to chemical reactions	Introduction to organic chemistry Able to understand the key concepts of naming, isomerism and formula with respect to organic molecules. Alkanes Understand the reactions and uses of alkanes.
Chemistry	Atomic Structure Structure of the atom, protons, neutrons and electrons Electronic structure Use of a mass spectrometer	Bonding Understand and be able to explain the bonding in metals, covalent and ionic substance and use the forces at work to predict the properties of these compounds Periodicity Be able to periodic trends and patterns in the periodic table using
Computing	Components of a computer and their use Programming basics Understand the characteristics of processors. Be able to write simple programs in C# in Visual Studio. Health and Safety Materials and their applications [Timbers, Polymers]	understanding of the forces acting on and in atoms and molecules Components of a computer and their use Programming techniques Understand the characteristics of input, output, memory and storage devices. Write programs using suitable constructs and arrays Materials and their applications [Papers and boards, Composites] Modern industrial and commercial practice [Scales of production]
DT	Understand the HSE 1974 Impact on design Understand the working properties of different materials Gain experience of using different materials practically Be able to determine material suitability for specific applications Recognise and utilise traditional workshop equipment when making products	Gain experience of using different materials practically Be able to determine material suitability for specific applications Understand the different processes associated with one-off, batch, mass and CF production
Economics	Nature of economics/how markets work. To develop an understanding of the core concepts of the basic economic problem and how markets work.	How markets work/market failure/government intervention. To develop an understanding of how markets work and market failure/government intervention.
English	problem and now markets work. If failure/government intervention. Othello (to include prose study) Students will become adept analysing extracts by discussing significance of the chosen scene within the play as a whole and be able to construct considered and evaluative responses to thematic questions / statements by maintaining focus on the task and exploring significant methods and aspects of tragedy relevant to task Aspects of Tragedy: Richard II and The Great Gatsby (to include poetry)	
	Students will know the texts well, understand how to analyse texts through the lit carefully consider the authors' use of methods in response to questions. The changing nature of family:	erary framework of tragedy and be able to construct clear arguments which
French	Describe and discuss trends in marriage and other forms of partnership. Consider and discuss the merits and problems of different family structures. Consider relationships between the generations and discuss problems that can arise. Heritage:	
Further Mathematics	Consider the ways in which some of the country's most famous heritage sites ma Comprehend how heritage impacts upon and is guided by culture in society Decision (AS) To introduce and develop understanding of different algorithms, linear programming and graphs. Water and Carbon Cycles	Arket themselves Decision (A2) To extend understanding of more complex algorithms and secure knowledge of diagrams to represent algorithms.
Geography	To understand the stores of water and carbon at or near the Earth's surface and To understand the significance of the cycles at various scales and their importan Contemporary Urban Environments To explore the growth of cities, considering why they have grown and the consec	the dynamic cyclical relationships associated with them. ce for human populations. quences this can have
German	To consider the responses to the issues faced by cities at a variety of levels of d Die digitale Welt Das Internet Familie im Wandel Beziehungen The British Empire, 1957-1967	evelopment. Jugendkultur Mode Familie im Wandel Partnerschaft / Ehe
History	Why did the British Empire grow and contract? The Birth of the USA, 1760-1801 What was the relationship between Britain and her American Colonies, 1760–17 The Establishment of Civil Rights in America – Historical Investigation	63?
Mathematics	Algebra, Straight lines and Kinematics To develop their core understanding of algebraic equations and expressions, coordinate geometry and time graphs	Graphs, Vectors, Data analysis and Calculus To develop statistical analysis techniques, geometric representations of vectors, sketching functions and to understand gradient functions more proficiently
Philosophy	Epistemology The underlying basis of Philosophy and all its questions come down to the quest epistemic issues ranging from how we might define knowledge, to how we can g within us), and scepticism and the limits of knowledge.	ion of what we can know, if anything. This section of the course explores ain knowledge from perception, where ideas come from (experience or innate
	Moral Philosophy This part of the course aims to give an understanding and critique of ethical theo It covers the ethical theories of Utilitarianism, Kant's Categorical Imperative and then engage with the meaning or lack thereof, of philosophical language used in	ry, how it is applied and how the language used in morality may be understood. Aristotle's Virtue Ethics. We apply four practical issues using each theory and morality.
PE	Skill acquisition, Classification Learning and Information processingDevelop key understanding of the skill acquisition unit of workRecognise and support the jump from GCSE to A-levelApplied anatomy and physiology CV and Respiratory systemsDevelop key understanding of the CV and respiratory systemRecognise and support the jump from GCSE to A-level	
Physics	Mechanics How to represent Scalars and vectors Resolving Vectors	Electricity Explain how energy transfer takes place in a electrical devices What is electromotive force and internal resistance
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	Explain why centre of mass is an important idea	Explain what a semiconductor and superconductor is?
	Explain what is a couple and what is meant by moment of couple	What are the key Principles behind circuit rules
	Describe motion along a straight line at constant acceleration	What I a function of a diode in a cell
	Describe what effect a resultant force produces	
	What is democracy/is the UK a well-functioning democracy?	What is the role and function of political parties in the UK/what factors
	What patterns in voting can we observe over recent elections in the UK/do long	determine their democratic appeal and success, are parties in decline and how
Politics	term primacy or short-term recency factors have greater influence?	far do they remain loyal to their ideological traditions?
	What is the role and function of pressure groups in UK politics/why are they	• What are the features of the various electoral systems which now operate in
	growing more influential and what factors dictate their effectiveness?	the UK/ Is there such a thing as a perfect or fair electoral system?
	Approaches in psychology gives the students a thorough understanding of	Memory – to understand the basics of the memory system in humans and the
	different branches of the subject.	problems associated when memories are inaccurate.
	Research methods skills that enable students to understand how experiments	Models of memory
	are conducted.	Explanations for forgetting.
Psycho	blogy Begin to develop an ability to conduct research and assess strengths and	Factors affecting the accuracy of eyewitness testimony.
	limitations of different methods.	Students develop their ability to evaluate researchStudents improve their
	Begin to be able to articulate the features of science and how these apply to	ability to apply their knowledge of psychology to novel situations within the
	psychology.	context of memory.
	Start to apply different fields of psychology to explaining human behaviour.	

Year 12 Spring Term Curriculum Overview		
Subject	Spring 1	Spring 2
Art	Food - Developing To propose different combinations of relevant media, techniques and processes for own work Exploring and developing ideas within a set theme To gain knowledge of a range of artists; looking at historical and contemporary practice	
Biology	Genetic information To understand the role of DNA as a genetic code. To understand the role of DNA	A in genetic diversity. To understand intraspecific and interspecific variation.
	Organisms Exchange substances with their environment To understand that as the internal environment of a cell or organism is different f surfaces such as cell plasma membranes	rom its external environment, substances must be exchanged at exchange
Chemistry	Energetics Be able to apply understanding to predict change of rate when changing conditions Kinetics Be able to calculate energy change	Equilibrium Be able to apply theory to predict position of equilibrium
	Haloalkanes Structure and properties of haloalkanes Productions of haloalkanes Reactions of haloalkanes Effects of haloalkanes on the environment	Alkenes Structure and properties of alkenes Production of alkenes Reactions of alkenes EZ isomerism Alcohols Structure and properties of alcohols Production of alcohols Reactions of alcohols
Computing	Datatypes Use function and subroutines, string manipulation Be able to represent data in a suitable form Be able to use string handling, functions and subroutines in programming.	Algorithms Structure, classes pointers. Able to use custom made and standard algorithms to describe and solve problems Write programs using classes, structures and pointers
DT	Materials and their applications [Metals, Modern materials] The use of adhesives Efficient use of material Computer systems in industry Understand the working properties of different materials Gain experience of using different materials practically Be able to determine material suitability for specific applications Recognise how designers can use material sustainably	Materials and their applications [Smart materials] Iterative design CADCAM Understand the working properties of different materials Gain experience of using different materials practically Be able to determine material suitability for specific applications Understand and apply the principle of iterative design Recognise the value CADCAM systems have in modern manufacturing
Economics	Aggregate demand/measures of economic performance To be able to explain the role of the core macroeconomic concepts of AD/AS	Aggregate supply/national income To understand short and long run AS and equilibrium levels of real national
English	Othello (to include prose study) Students will become adept analysing extracts by discussing significance of the and evaluative responses to thematic questions / statements by maintaining focuto task Aspects of Tragedy: Richard II and The Great Gatsby (to include poetry) Students will know the texts well, understand how to analyse texts through the lift	chosen scene within the play as a whole and be able to construct considered us on the task and exploring significant methods and aspects of tragedy relevant terary framework of tragedy and be able to construct clear arguments which
French	carefully consider the authors' use of methods in response to questions. Technology: Describe and discuss how technology has transformed everyday life. Consider and discuss the dangers of digital technology. Consider the different users of digital technology and discuss possible future developments. Music: Consider the popularity of contemporary francophone music and its diversity of genre and style. Consider who listens to contemporary francophone music, how often and by what means.	
Further Mathematics	Chi-squared and Complex Numbers To develop understanding of statistical distributions in order to test a hypothesis and understand imaginary numbers. Water and Carbon Cycles To understand the stores of water and carbon at or near the Earth's surface	Statistical distributions and Matrices To extend understanding of statistical distributions and relate to the binomial and develop understanding of matrices. Hazards The concept of a hazard in a geographical context
Geography	and the dynamic cyclical relationships associated with them. To understand the significance of the cycles at various scales and their importance for human populations Global Governance To gain a thorough understanding of the concept of globalisation – the economic forces which have been a key feature of global economy and society in recent de To analyse the increase interdependence and transformed relationships between othermore and payor and society of human official	To understand hazards, impacts, responses and ways to manage volcanoes, earthquakes, storms and wildfires.
German	Jugendkultur Musik Familie im Wandel Verschiedene Familienformen	Kunst und Architektur Künstler Berlin Damals und heute Geschichte
History	The British Empire, 1957-1967 What influenced imperial policy? The Birth of the USA, 1760-1801 How did Britain enforce this Colonial Relationship, 1763–1774?	
Mathematics	Coordinate geometry, Statistical distributions and Newton's Laws To introduce and develop coordinate geometry understanding, the use of Hypothesis testing to analyse data/events and to understand Newton's laws to solve kinematic problems.	Probability, Friction and Moments To develop understanding of dependent and independent events, how friction affects a particles motion and introduce moments as the forces' turning effect.
Philosophy	Epistemology The underlying basis of Philosophy and all its questions come down to the quest epistemic issues ranging from how we might define knowledge, to how we can g within us), and scepticism and the limits of knowledge. Moral Philosophy This part of the course aims to give an understanding and critique of ethical theory	ion of what we can know, if anything. This section of the course explores ain knowledge from perception, where ideas come from (experience or innate
	It covers the ethical theories of Utilitarianism, Kant's Categorical Imperative and then engage with the meaning or lack thereof, of philosophical language used in 3	Aristotle's Virtue Ethics. We apply four practical issues using each theory and morality.

PE	Sports and Society – Globalisation of sport in the 21st century & Sociolog	y Theory
	Develop Understanding of sport and society looking at the historical background	of sport.
	Develop the short answer style questions	
	Applied anatomy physiology – Energy systems& Muscular skeletal system	
	Develop understanding of Energy systems and the musculoskeletal system.	
	Develop short mark exam answers	
Physics	Mechanics and Materials	Waves
1 Hyelee	State the unit of density and describe an investigation to measure the density	Define a plane polarised wave. Explain the difference between transverse
	of different materials	wave and longitudinal wave
	Discuss limit to the force extension graph for a spring and calculate the spring	Explain what we mean by diffraction
	constant	To understand what causes wave to refract when they pass across a
	What is strain energy and limit of proportionality	houndary
	what is strain chergy and inne of proportionality	Explain how to waves combine to produce reinforcement
		Describe Youngs double slit experiment
	What are the core elements and what is the structure of LIK government/Why	What are the key roles of LIK 's Parliament/ is Parliament still effective?
	bes the LIK long had a problematic relationship with the ELL and how strong is	What is the structure of the core executive and the role and newere of the DM
	the case for further devolution?	and expinet / De we new have DM government, apping and powers of the PM
Delition	What are the origina and main factures of the LIK Constitution/ have recent	and cabinely bo we now have Fivi government, cabinel government of heither?
Folitics	innevetions succeeded and how strong is the same for further reform?	
	What are the role and newers of the LIC judiciers/de judges new have too	
	what are the role and powers of the OK judiciary/do judges now have too	
	Recipient of too fille?	Attack mant to understand how and why habias became attacked to their
	Social influence- to understand now and why people are influenced by others	Attachment – to understand now and why bables become attached to their
	and the application of this to society.	caregivers and the outcome for children if this does not happen.
	Explanations for conformity	Multiple attachments and the role of the father.
	Explanations for obedience.	Animal studies
	Resistance to social influence.	Explanations of attachment
Psychology	Social change	Ainsworth's Strange Situation'.
	Students should consider the behaviour of others and apply research to	Bowlby's theory of maternal deprivation.
	examples.	Romanian orphans
	Ethical Issues of social influence experiments.	he influence of early attachment.
		Students to learn about attachment which might have benefit in their future
		lives e.g. skin to skin contact and the role of the father.

Year 12 Summer Term Curriculum Overview		
Subject	Summer 1	Summer 2
Art	Food Realising To present a coherent body of work that is reflective of the personal project so far Gain knowledge of a design idea process and realise intentions	
Biology	Genetic information and Statistics To understand the role of DNA as a genetic code. To understand the role of DNA in genetic diversity. To understand intraspecific and interspecific variation. To understand the key mathematical aspects of handling data, in biological contexts Organisms Exchange substances with their environment To understand that as the internal environment of a cell or organism is different from its external environment.	
Chemistry	surfaces such as cell plasma membranes. Oxidation and reduction Be able to apply definitions of oxidation and reduction to form equations	History of chemistry Gain an insight into the life and works of key historical figures in chemistry
	Organic analysis	Gain an insight into the life and works of key historical figures in
	Gp 2 and Gp7 Intra red spectroscopy, how it works and interpreting the spectra Mass spectrometry, how it works and interpreting the spectra Chemical methods for determining functional groups Properties of group2 and group 7 elements Reactions of these elements How these are used in chemical analysis	chemistry. Research an historical significant figure in chemistry to gain an understanding of their life and work and how it relates to chemistry today
Computing	Software and its development Programming project introduction Windows programming Understand the types and purpose of system software in detail Describe application generation process Explain and compare various software development methodologies	Software and its development Legal, moral, cultural and ethical issues. Project analysis Know the characteristics and purpose of programming paradigms The moral, social, ethical, cultural opportunities and risks. Legislation
DT	Windows app and project analysis Designers and Design movements	Identify, research and specify the proposed solution
	Social, moral and ethical issues in design Be able to explain the notable movements within design Understand the defining features of each movement, including recognised designers who helped shape it Explain how socio-economic factors influence design	Environmental issues in design Using primary and secondary data to identify opportunities for design Recognising the impact that design can have on the environment Looking for design solutions to existing environmental issues
Economics	Economic growth / macroeconomic objectives, policies and conflicts. To understand the causes of growth and role of output gaps. To discuss the benefits and costs of economic growth.	Macroeconomic objectives, policies and conflicts. Bridging and revision work To understand why there are potential conflicts between macroeconomic
English	Othello (to include prose study)	
	Students will become adept analysing extracts by discussing significance of the chosen scene within the play as a whole and be able to construct considered and evaluative responses to thematic questions / statements by maintaining focus on the task and exploring significant methods and aspects of tragedy relevant to task Aspects of Tragedy: Richard II and The Great Gatsby (to include poetry) Students will know the texts well, understand how to analyse texts through the literary framework of tragedy and he able to construct clear arguments which	
French	carefully consider the authors' use of methods in response to questions. Charity work: Examine the voluntary sector in France Discuss the benefits of voluntary work for those that are helped and how beneficiaries request help Look for the benefits of voluntary work for those that do it and for society as a whole Cinema:	
	Consider the major developments in the evolution of French cinema from its beg Consider the continuing popularity of French cinema and film festivals	innings to the present day
Further Mathematics	Core Pure To understand the use of vectors in 3D and develop mathematical knowledge fo solving polynomials. Hazards	Core Pure To understand the uses of volumes of revolution, secure understanding of series and develop knowledge of mathematical proof.
	To understand hazards, impacts, responses and ways to manage volcanoes, ea	rthquakes, storms and wildfires.
Geography	Global Governance To gain a thorough understanding of the concept of globalisation – the economic, political and social changes associated with technological and other driving forces which have been a key feature of global economy and society in recent decades.	Non examined assessment To complete an independent investigation
	To analyse the increase interdependence and transformed relationships between peoples, states and environments have prompted more or less successful attempts at a global level to manage and govern some aspects of human affairs.	
German	Berlin – damals und heute Theater, Musik und Museen Kunst und Architektur Vergangenheit, Gegenwart , Zukunft	Stimulus cards and translation Berlin – damals und heute Vielfalt
History	Ine British Empire, 1957-1967 What part did economic factors play in the development of the British Empire? The Birth of the USA, 1760-1801 How did the Colonial Relationship come to an end, 1774–1776?	
Mathematics	Ine Establishment of Civil Rights in America – Historical Investigation Trigonometry, Calculus and Logaritihms To develop understanding of their knowledge of Trigonometry as well as introducing Trigonometric identites, vectors in 3D and their understanding of exponents and their inverse: Logarithms	Data interpretation, Functions of time and Sequences To develop their knowledge of linear and quadratic sequences, using calculus with kinematics and statistical methods to find and analyse data.
Philosophy	Epistemology The underlying basis of Philosophy and all its questions come down to the quest epistemic issues ranging from how we might define knowledge, to how we can g within us), and scepticism and the limits of knowledge.	ion of what we can know, if anything. This section of the course explores ain knowledge from perception, where ideas come from (experience or innate
	Moral Philosophy This part of the course aims to give an understanding and critique of ethical theo It covers the ethical theories of Utilitarianism, Kant's Categorical Imperative and then engage with the meaning or lack thereof, of philosophical language used in	ry, how it is applied and how the language used in morality may be understood. Aristotle's Virtue Ethics. We apply four practical issues using each theory and morality.

PE	Sports and Society – Globalisation of sport in the 21st century & Sociology Develop understanding of sociology in sport Develop the idea of sports development in the modern era	/ Theory
	Exercise Physiology Apply the anatomy and physiology through the exercise physiology develop a real	al understanding of how the body develops through sport
Physics	Particles Describe what is inside an atom and identify different classification of particles To be able to calculate the energy of Photon To understand the concept of matter and antimatter and name the different type of interaction and understand the conservation rules of particle interaction	Quantum PhysicsDefine a quantumDefine a photon and explain the photoelectric effectTo understand the concept of Ionisation and excitation.Explain energy levels of atom and how fluorescent tube worksDefine line spectrum
Politics	Revision and Exam Skills Focus	What are the core ideas and principles of liberalism, conservatism and socialism/what level of variation is there between different specified thinkers within these ideological traditions and to what extent do they agree or disagree about key questions such as individual rights and liberties, the role of the state and human nature?
Psychology	 Psychopathology- to understand how psychologist diagnose mental health conditions and how they explain and treat them. Definitions of abnormality. The characteristics of phobias and behavioural approach to explaining and treating phobias. The characteristics of Depression and the cognitive approach to explaining and treating depression. The characteristics of OCD and the biological approach to explaining and treating OCD. Understanding of the diversity of psychological functioning to encourage tolerance. 	Biopsychology - to look at the biology of the human body that directly affects thought and behaviour. The divisions of the nervous system The process of synaptic transmissionThe function of the endocrine system The fight or flight response including the role of adrenaline.

Year 13 Autumn Term Curriculum Overview		
Subject	Autumn 1	Autumn 2
Art	Personal Investigation - Recording Develop observational drawing skills from primary and secondary resources Develop a range of mixed media skills To understand how to carry out practical experimentation across disciplines	
Biology	Energy Transfer in and between organisms AND ecosystems To understand the key reaction of photosynthesis and its role in energy transfer inside organisms. To understand that biomass is produced in photosynthesis and transferred to other organisms.	
	Respiration and Genetics, populations, populations To understand the key reaction of respiration and its role in energy transfer ins	ide organisms.
Chemistry	Thermodynamics Use of Born Haber cycles to calculate lattice enthalpy Use of the Gibbs Equation to calculate feasibility of a reaction Carbonyls Structure and properties of carbonyl compounds Production of carbonyl compounds	Kinetics Kp Gaining an understanding of how factors such as temperature and concentration effect rate of reaction in a quantitative way Be able to calculate equilibrium constants for gas phase reactions Aromatic Amines Structure and bonding in benzene
	Reactions of carbonyls	Reactions of benzene Reactions of substituted aromatics Structure and properties of amines Production of amines Reactions of amines
Computing	Data structure and algorithms Analysis and design How data is stored in various structures and how algorithms can be applied Review project analysis Designing the solution	Data structure and algorithms Analysis and design Boolean Algebra Programming techniques Design and development How data is stored in various structures and how algorithms can be applied Review project analysis Designing the solution Define and solve problems using Boolean circuits, logic and K-Maps Logic related to FF and adders Able to use programming techniques Designing and developing the solution
DT	Developing design proposals Design for manufacture, maintenance, repair and disposal Feasibility studies Design communication Recognising different methods creating developing design concepts Understanding how products can be designed specifically with manufacture, maintenance and disposal in mind Recognising the value of feasibility studies and client input Understanding different methods of communicating design ideas	Developing design prototypes Major developments in technology Product life cycles Quality assurance and quality control National and International standards Understanding different methods that are used to create design prototypes Identifying the key technological developments in technology that have influenced design Understanding and using product life cycles (sustainability and economic) Understanding the different methods of QC and QA that are used in design Understanding how national, and international, standards affect the design of producte
Economics	Business growth / business objectives/market structures To understand reasons for business growth, understand various costs, revenues and profits and how firms behave in various market structures.	Market structures/labour markets/government intervention To understand the issues of competition and efficiency within various market structures. To understand concept of wage determination. To understand various forms of government intervention
English	 The Murder of Roger Ackroyd To gain a critical understanding of The Murder of Roger Ackroyd, including an themes, alongside Christie's use of language and structure. To evaluate critical interpretations of Christie and the genre, incorporating these to be able to balance these elements in an extended critique of the text. To establish a holistic overview of the genre, drawing connections between lite When Will There Be Good News? AO1: articulate informed, personal and creative responses to literary texts, usi expression AO2: analyse ways in which meanings are shaped in literary texts AO3: demonstrate understanding of the significance and influence of the context AO4: explore connections across literary texts AO5: explore literary texts informed by different interpretations Students will know the text well, understand how the novel fits into the crime fit the author's use of methods in response to questions. 	awareness of genre conventions, historical and literary context, and core e into written responses. erary texts ng associated concepts and terminology, and coherent, accurate written exts in which literary texts are written and received ction genre, and be able to construct clear arguments which carefully consider
French	Criminality Examine different attitudes to crime Discuss prison and its merits and problems Consider alternative forms of punishment Politics : Discuss arguments relating to the vote and examine the French political syster Discuss engagement levels of young people and their influence on politics. Discuss the future of politics and political engagement	n and its evolution.
Further Mathematics	Complex Numbers and Elasticity To develop their understanding of complex numbers and introduce Hooke's law.	Statistical Tests and Collisions To use a multitude of statistical tests to analyse data and develop their understanding of elastic collisions.
Geography	Coasts To know how the coast works as a system To understand the geomorphological processes involved in shaping the coasta To understand the formation of the different aspects of the coastal landscape To be able to evaluate a range of coastal management strategies. Changing Places To know how people experience place, how people experience place and how	al environment
	To appreciate the range of factors which shape place and alter place over time To complete two detailed studies of contrasting places To consider the above using a range of qualitative and quantitative skills	
German	Einwanderung- Gründe Goodbye Lenin – DDR back ground knowledge and research	Integration – Malsnahme Goodbye Lenin Deutschland und die EU -Rolle

	Der Besuch der alten Dame	
	Goodbye Lenin – Berlin Wall and Regime Collapse and	
	ReunificationImperfect of verbs – reading and writing	
	The British Empire 1057-1067	
	How did the Empire influence British attitudes and culture?	
1.12 - 4	How did the Empire initiance British attitudes and culture?	
History	The Birth of the USA, 1/60-1801	
	What was the significance of the The War of Independence, 1776–1783?	
	The Establishment of Civil Rights in America – Historical Investigation	
Mathematics	Trigonometry, Binomial formula and Modulus functions	Projectiles, Roots, Differention and Normal distribution
	To develop their prequisite knowledge of trigonometric functions, further their	To solve problems using projectile motion, delevop their understanding of
	understanding of the Binomial expansion and the use of the modulus	gradient functions and test continuos data in a statistical model.
	function.	
Philosophy	Metaphysics of God	
	This unit aims to equip students with an understanding of and an ability to critic	ue the issues raised by the concept of the God of classical theism, key
	arguments for and against the existence of God and an understanding of the la	inguage used in relation to God.
	Metaphysics of Mind	
	A sustained philosophical analysis of the mind's relationship to the body, from	Cartesian dualism to physicalist theories and hybrids such as property dualism
	or functionalism, the aim here is to inquire what we mean when we talk about "	mind" both ontologically and linguistically.
PE	Sports Psychology – Factors that influence participation	
	Develop the understanding of sports psychology and recognise why some perf	ormers are mentally more prepared than others for sport
	Biomechanics – Principles, levers and motion	
	Develop understanding and application of biomechanics	
Physics	Further Mechanics	Fields
,	Define angular displacement and angular speed	Define radial Field and uniform field
	Calculate centripetal acceleration	Explain what is meant by Gravitational and Electric Field Strength
	Describe the phase difference between two oscillation that are out of step	Gravitational Potential and Electric potential
	State the fundamental conditions for SHM	Explain the significance of Potential gradient
		And compare the graph of V against r
		Explain Faradays law and Lenz Law of Electromagnetic Induction
	One independently chosen non-core ideology (selecting from anarchism	What are the origins and key principles of the US Constitution/What are its
	feminism nationalism ecologism and multi-culturalism)/ to what extent do	relative democratic advantages and disadvantages compared to the LIK and
	specified thinkers within these non-core ideologies coincide with or contradict	is it more effective for example in protecting individual rights?
	those within the three core ideological traditions (synontic focus)	What is the role function and constitutional powers of the US judiciary/How
	What is the historical structural and cultural context in which American	do their powers compare with LIK judges and are LIS judges essentially
	nolitics and government takes place?	fullificians in robes?
Politics	What is structural theory/where and how can structural rational and cultural	What is the role function and constitutional nowers of the US President/How
	approaches to political analysis be applied to the government and politics of	does their power compare to the LIK's PM and are presidents more 'imperial'
	the LIK and LISA2 (synamtic focus)	or 'imperilled' in exercising nower?
		What is the role function and constitutional powers of the US Congress/How
		does their power and effectiveness compare with the LIK's Parliament and is
		Congress now the 'broken branch' of US government?
	Piencychology to apply biological theory to psychological concepts	Aggression to understand the sources of aggression and apply these
	Biopsychology-to apply biological theory to psychological concepts.	Aggression – to understand the causes of aggression and apply these theories to examples
	maintained and broakdown	Relationships and half
	Rienevehology	The evolutionary evolutions for partner proferences
	Diupsychology-	Factors affecting attraction in remantic relationships
Dovobalacy	Destinity and functional recovery of the brain after trauma	Virtual relationships in assist modia
rsychology	Frasticity and functional recovery of the Drain after trauma.	Virtual relationships in social media
	Ways of studying the brain	Agreened to helf
	Biological mythms	Aggression TSI nall-
	Relationships 1st half-	iveural and normonal mechanisms in aggression.
	I neories of romantic relationships	Genetic factors in aggression.
	Duck's phase model of relationship breakdown	The ethological explanation of aggression.

Year 13 Spr	ing Term Curriculum Overview	
Subject	Spring 1	Spring 2
Art	Developing To propose different combinations of relevant media, techniques and processe Exploring and developing ideas within a set theme	s for own work
Biology	Organisms respond to changes to their internal and external environment To understand how organisms respond to changes to their internal and external	t al environment via hormonal and neural mechanisms.
Chemistry	Control of gene expression To understand that cells are able to control their metabolic activities by regulati Acids and Bases Calculating pH of weak and strong acids and bases pH of buffer solutions pH during neutralisation reactions How to choose indicators for titrations	ng gene expression. Electrode potentials How to build an electrochemical cell How to represent what is happening in an electrochemical cell How conditions effect electrochemical cells How batteries and fuel cells work Reactions of period 3 oxides How period 3 elements react How their oxides react
	Polymers How polymers are formed Key properties and structure of condensation and addition polymers Amino acids and proteins The structure of biological molecules such as proteins and DNA	Transition metals How transition elements form ions The shape of the ions formed How this gives rise to coloured compounds The reactions of these ions in different conditions How transition metals act as catalysts
Computing	Computational methods Exchanging data Design and development Know and explain computational methods which can be used to solve problems How data is exchanged safely, effectively whilst maintaining data integrity Developing the solution	Exchanging methods Computational thinking elements Evaluation Understand the importance of network types, protocols, standards, models and hardware involved and web technologies. Consider caching, reusable components and concurrent processing whilst solving problems
DT	Analysis and evaluation Designing to inform Examination skills Understanding and applying different methods of analysis and evaluation to inform projects and reach conclusions Recognising that design is a tool that can be used to influence/inform a user. Understanding the positive and negative impact of this. Scrutinising examination guestions in advance of the upcoming exams	Revision of content Examination skills Revisiting content through different methods, questions, short projects, group activities to ensure all knowledge is embedded. Largely student-driven to ensure what the cohort needs is what is delivered. Scrutinising examination questions in advance of the upcoming exams.
Economics	International economics/development/ poverty and inequality To be able to explain the significance of globalisation and international trade. To understand concepts of absolute and comparative advantage, trading blocks and protectionist policies. To discuss problems associated with poverty/inequality.	Financial economics/the role of the state in the macroeconomy To understand public finance, macroeconomic policies and the role of the financial sector in a global context. To understand how market failure can occur in financial markets. To understand macroeconomic policies in a global context.
English	Crime poetry To gain a critical understanding of the poetry collection. To be able to critique and compare the poems in the anthology, showing an aw To establish a holistic overview of the genre, drawing connections between liter	vareness of genre conventions, themes, and technique. rary texts.
	Unseen crime fiction AO1: articulate informed, personal and creative responses to literary texts, usin expression AO2: analyse ways in which meanings are shaped in literary texts AO3: demonstrate understanding of the significance and influence of the conte AO4: explore connections across literary texts AO5: explore literary texts informed by different interpretations Pupils should become adept at exploring unseen extracts by at first discussing the source.	ng associated concepts and terminology, and coherent, accurate written xts in which literary texts are written and received structure, suspense, representation and the nature of the crime presented in
French	Marginalised in society: Examine different groups who are socially marginalised Discuss measures to help those who are marginalised Consider contrasting attitudes to people who are marginalised Strikes and Union movement: Understand the important role of unions. Talk about strikes and protests and consider different methods of protesting Discuss different attitudes towards strikes, protests and other political tensions	
Further Mathematics	To understand polar coordinates and curves, and further their understanding of Calculus.	To develop their knowledge of differential equations and introduce hyperbolic functions.
Geography	Coasts To know how the coast works as a system To understand the geomorphological processes involved in shaping the coasta To understand the formation of the different aspects of the coastal landscape To be able to evaluate a range of coastal management strategies.	l environment
	To know how people experience place, how people experience place and how To appreciate the range of factors which shape place and alter place over time To complete two detailed studies of contrasting places To consider the above using a range of qualitative and quantitative skills	identity is attached to place.
German	Rassismus – Opfer Die Wiedervereinigung – Revolution Die Politik und Jugend – Engagement	Die Wiedervereinigung – Wunsch Translation Skills
	The British Empire, 1957-1967 How did the indigenous peoples respond to British rule? How important was the role of key individuals and groups and how were they a	ffected by developments?
History	The Birth of the USA, 1760-1801 How was the Republic founded, 1776–1789? What was the significance of Washington and Adams, 1789–1801?	
Mathematics	The Establishment of Civil Rights in America – Historical Investigation	
	To further their understanding of Calculus, develop their knowledge of an array of sequences, series and Vectors in 3D.	To discover ladder problems, develop their knowledge of functions of time and evaluate the relationship between variables.

Philosophy	Metaphysics of God	
Theophy	This unit aims to equip students with an understanding of and an ability to critic	the issues raised by the concept of the God of classical theism, key
	arguments for and against the existence of God and an understanding of the language used in relation to God.	
	Metaphysics of Mind	
	A sustained philosophical analysis of the mind's relationship to the body, from Cartesian dualism to physicalist theories and hybrids such as property dualism	
	or functionalism, the aim here is to inquire what we mean when we talk about "	mind" both ontologically and linguistically.
PE	Sport and Society – Technology & Commercialisation,	
	Develop the essay skills needed.	
	Understand modern day contemporary sport	
	Coursework and practical Moderation	
	Allow students correct time for developing their coursework and evidence gather	ering for practical performance
Physics	Nuclear /Thermal	Turning Points
-	Describe how the nucleus was discovered	Explain how Milikan discovered the charge of an electron
	Describe how the intensity of the gamma radiation changes as it spreads out	What is Newtons Corpuscular theory of Light
	Define Half Life of a radioactive isotope and its decay constant	To be able to understand how Huygens wave theory explained refraction
	Describe how dense the nucleus is?	Describe Youngs Double Slit Experiment
	Describe binding energy and Mass defect	To be able to calculate the speed of light in Vacuum using Maxwell equation.
	What is the historical, structural and cultural context in which American	What is the historical, cultural and ideological context in which American
	politics takes place/Is US voting behaviour best understood in rational (issues	politics US party politics takes place/ Why do we have two party domination
	based) or more expressive (identity based) terms? /Compare the nature and	and why are third parties less successful than in the UK?
Politics	extent of long- and short-term voting influences in the US and UK.	What structural and rational factors explain the significant power played by
	What are the main features of the US electoral system at federal and state	pressure groups in the USA/ Compare the power and effectiveness of
	level/ is the Electoral College system fit for purpose and are ballot measures	pressure groups in the US and UK.
	good for democracy?	
	Schizophrenia- to understand the symptoms and diagnosis of schizophrenia	Issues and Debates – to understand the key issues and debates that run
	and explanations and treatments.	through all aspects of psychology and to be able to give examples for each.
	Aggression 2nd half-	Research Methods- Inferential Testing
	Social psychological explanations of human aggression.	Issues and debates
	Institutional aggression in the context of prisons.	Gender and culture in Psychology universality and bias.
	Media influences on aggression.	Free will and determinism
Psychology	SchizophreniaClassification of schizophrenia.	The nature-nurture debate
l	Reliability and validity in diagnosis.	Holism and reductionism
	Biological explanations	Ethical implications of research studies and theory.
	Drug therapy	Statistical testing -Introduction to statistical testing; the sign testProbability
	Psychological explanations	and significance -Factors affecting the choice of statistical test
	Psychological treatments	
	The importance of an interactionist approach in explaining and treating	
	schizophrenia.	

Year 13 Su	mmer Term Curriculum Overview
Subject	Summer 1
Art	Realising
	Gain knowledge of a design idea process and realise intentions
Biology	Organisms respond to changes to their internal and external environment
Dielegy	To understand how organisms respond to changes to their internal and external environment via hormonal and neural mechanisms.
	Control of gene expression
	To understand that cells are able to control their metabolic activities by regulating gene expression.
Chemistry	NMR Spec
	How an NMR machine works
	How to build a structure from the spectra
	Chromatography
	How does chromatography work?
	What are the main types of chromatography?
	How are these used?
	Reactions of inorganic ions in solutions
	How inorganic ions of different charges react
	Organic Synchesis How can you create one molecule from another
DT	Revision of content
	Revisiting content through different methods, guestions, short projects, group activities to ensure all knowledge is embedded. Largely student-driven to
	ensure what the cohort needs is what is delivered.
	Examination skills
	Scrutinising examination questions in advance of the upcoming exams.
Economics	Revision and exam preparation
	To prepare students for their three exam papers. To fine tune examination technique. To provide an opportunity for any student to cover any gaps they may
English	Revision
Eligiisti	
French	Diversity:
	Consider the benefits of living in an ethnically diverse society.
	Consider the need for tolerance and respect of diversity.
	Immigration
	Discuss some of the political issues concerning immigration in francophone countries
	Consider the viewpoints of political parties regarding immigration
	Consider immigration from the standpoint of immigrants, as well as aspects of racism
Further	Exam Preparation
iviatnematics	I o be confident in answering exam style questions and evaluate problems effectively.
Geography	Examination skills
German	Translation, skills and revision
German	Davisian
History	Revision
Mathematics	Exam Preparation
<u></u>	To be confident in answering exam style questions and evaluate problems effectively.
Philosophy	Exam preparation
PE	Recap, revision and review
Physics	Exame Povision
FIIYSICS	Exams technique
	Revision and past papers
	Multiple choice questions practise.
Politics	Revision and Exam Skills Focus
	Povision of areas identified by students and past exam paper practice
Psychology	revision of areas identified by students and past exam paper practice.