Year 10 Curriculum Overview 2022-23

Subject	Winter term skills & knowledge	Spring term skills & knowledge	Summer term skills & knowledge	Enrichment opportunities
,	Animal Farm: analysing language and		Power and Conflict (Individual	
	understanding the context of the novel.	Macbeth – Learning the plot and characters of the play, analysing	Experiences) - Developing knowledge of	
	English Language Paper 1: finding	language, structure and stagecraft,	the content of each poem, analysing the use of language and structure,	
	information, analysing language and structure, evaluating, organising your	understanding the context of the play.	understanding the context of each poem.	Theatre Trip – An Inspector Calls
English	writing, writing imaginatively and writing	L Know Why the Caged Bird Sings: English		The state of the s
English	with technical accuracy.	I Know Why the Caged Bird Sings: English Language Paper 2: finding and	English Language Writing Skills:	Debating Club
	Power and Conflict (Human Power) -	summarising information, Comparing	viewpoint writing, writing to describe	
	Developing knowledge of the content of each poem, analysing the use of	texts, analysing language and writing for	and narrate, organising your writing and technical accuracy.	
	language and structure, understanding	audience and purpose.	teermear accuracy.	
	the context of each poem.		Speaking and listening	
	Knowledge: Solving Equations and	Knowledge: Angles and bearings, circles	Knowledge: Non-calculator methods of	Laterna dista Matha Challana
Maths	Inequalities, Simultaneous Equations, Gradients and Lines, Non-linear Graphs.	and related shapes, vectors Ratios and fractions, percentages and	calculation*, types of number and	Intermediate Maths Challenge (Targeted)
	Revision of Summer Term Y9 and	interest, probability, collecting,	sequences, indices and roots,	Times Tables Rock Stars (All)
	Autumn Term Y11 for Y10 Exam	representing and interpreting data*	manipulating expressions Skills: numeracy, calculator use,	Maths Clinic
	Skills: numeracy, calculator use,	Skills: numeracy, calculator use,	mathematical reasoning, problem solving	(AII)
	mathematical reasoning, problem solving Knowledge:Homeostasis, energy change,	mathematical reasoning, problem solving Knowledge:Ecology, Rates of reaction,	Knowledge:Inheritance and variation,	
	Electricity	organic chemistry, Forces	Chemical analysis, waves	
	, ,	Skills: Recall and explain methods,	, ,	
Science	Skills: Recall and explain methods,	conclusions and evaluations for required	Skills: Recall and explain methods,	
	conclusions and evaluations for required practical's, can recall and use correct	practical's, can recall and use correct	conclusions and evaluations for required practical's, can recall and use correct	
	formula, can use correct terminology	formula, can use correct terminology, can introvert units	formula, can use correct terminology	
	Knowledge: forces and motion,	Knowledge:Lifestyle and health, forces	Knowledge:Ecosystem and biodiversity,	
	magnetism, waves	and energy, preventing and curing	Inheritance, Electricity	
Science	Skills: Recall and explain methods,	disease Skills: Recall and explain methods,	Skills: Recall and explain methods,	Drop in sessions
(Synergy)	conclusions and evaluations for required	conclusions and evaluations for required	conclusions and evaluations for required	Drop in sessions
	practical's, can recall and use correct	practical's, can recall and use correct	practical's, can recall and use correct	
	formula, can use correct terminology	formula, can use correct terminology	formula, can use correct terminology	
	Sustained study projects Chair design CAD 3D print	Sustained study projects Chair desire. CAP, 3P, print		
	 Chair design- CAD- 3D print, laser cutting, maquettes, using 	 Chair design- CAD- 3D print, laser cutting, maquettes, using 	Lamp Project- sustained	
3D Design	the work of others to influence	the work of others to influence	independent project	
	design choices- Teacher input	design choices- Teacher input		
	Lamp Project- sustained	Lamp Project- sustained		
	independent project	independent project		Curriculum Days, if applicable.
	Theme: Structures Knowledge:-	Start of Coursework 2		carricularii Bays, ii applicasic.
	Expected content, approach and	Theme: own choice or given, depending	Coursework 2 continued.	Access to the department on given
	presentation for AO2 of a GCSE project.	on previous progress.	Knowledge:-	lunchtimes/after school.
	Expectations for AO4- final piece	Knowledge:-	Expected content, approach and	Lies resources such as VouTube to
	Skills:- Presentation, annotation, research,	Expected content and desirable approaches to learning for AO3 of a GCSE	presentation for AO1 of a GCSE project.	Use resources, such as YouTube, to expand knowledge of the
Art	making links with others*, drawing to	project.	Chille	subjects/artist covered e.g. virtual
	test and explain ideas, techniques with	Skills:-	Skills:- Artist research and analysis. *	gallery tours.
	chosen materials, processes/approach	Observational, imagined and secondary	Exploration of artists' techniques	Fishermal compactitions and college
	with chosen materials, development of ideas, working sequentially, working	source work produced in a range of materials, with the focus on technique.	Response to the artists.	External competitions and college competitions will be advertised as
	independently, self-evaluation.	Topic research.		applicable.
	Time management. Meeting deadlines.	Presentation and annotation skills.		
	Organizing appropriate materials.			
	[GCSE] Units		[GCSE] Computational thinking	
	The units of data storage:How data needs to be converted		 Principles of computational thinking: [GCSE] Designing, creating and refining 	
	into a binary format to be processed		algorithms	
	by a computer		Identify the inputs, processes, and	
	o Data capacity and calculation of data		outputs for a problem	
	capacity requirements	[GCSE] Data storage	Structure diagrams	
	[GCSE] Architecture of the CPU	Numbers Characters	Create, interpret, correct, complete, and refine algorithms writer.	
	The purpose of the CPU:The fetch-execute cycle	Images	and refine algorithms using:Identify common errors	
	Common CPU components and their	Sound	Trace tables	
	function:	[CCSF] Communication	[GCSE] Searching and sorting algorithms	
	Von Neumann architecture:	[GCSE] CompressionThe need for compression	 Standard searching algorithms: 	
	[GCSE] CPU performance	Types of compression:	• Standard sorting algorithms:	iDEA Award
Computer	 How common characteristics of CPUs affect their performance: 		[GCSE] LanguagesCharacteristics and purpose of	Typing.com Robras Challenge
Science	[GCSE] Embedded systems	[GCSE] Boolean logic	different levels of programming	Bebras Challenge eSports??
	 The purpose and characteristics of 	Simple logic diagrams using the progrators AND, OR and NOT	language:	<u> </u>
	embedded systems	operators AND, OR and NOT Truth tables	The purpose of translators	
	o Examples of embedded systems	 Combining Boolean operators using 	The characteristics of a compiler and	
	[GCSE] Primary storage (Memory)	AND, OR and NOT	an interpreter	
	 The need for primary storage The difference between RAM and 	Applying logical operators in truth	[GCSE] The Integrated Development Environment (IDE)	
	ROM	tables to solve problems	Common tools and facilities	
	The purpose of ROM &RAM in a		available in an Integrated	
	computer system		Development Environment (IDE):	
	o Virtual memory		[GCSE] Programming fundamentals	
	[GCSE] Secondary Storage		The use of variables, constants, approximate inputs outputs and	
	The need for secondary storage Common types of storage:		operators, inputs, outputs and	
	Common types of storage:		assignments	

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	 Suitable storage devices and storage media for a given application The advantages and disadvantages of different storage devices and storage media relating to these characteristics: 		 The use of the three basic programming constructs used to control the flow of a program: The common arithmetic operators The common Boolean operators AND, OR and NOT [GCSE] Data Types 	
Construction D & T Textiles	Unit 3- (One lesson per fortnight) Scientific and Mathematical applications for construction • Understand the effects of forces and temperature changes on materials used • Use mathematical equipment to solve construction problems Unit 7- (3 lessons per fortnight) Exploring brick work and block work principles and techniques • Understand tools, materials and equipment used for brick and blockwork • Develop practical skills and safe techniques to construct brickwork and blockwork • Bag project- modelling and making final prototype up to half term. • CAD- learning 2 & 3D design- laser cutter , 3D printer • Theory- Core principles- Design	Unit 3- (One lesson per fortnight) Scientific and Mathematical applications for construction • Understand the effects of forces and temperature changes on materials used • Use mathematical equipment to solve construction problems Unit 7- (3 lessons per fortnight) Exploring brick work and block work principles and techniques • Understand tools, materials and equipment used for brick and blockwork • Develop practical skills and safe techniques to construct brickwork and blockwork • Mock NEA- Sustainable living-Making iterative models- draping on the stand and pattern cutting, Manipulating and joining materials, ensuring accuracy and structural integrity • Theory- In-depth principles- physical	 The use of data types: Unit 3- (One lesson per fortnight) Scientific and Mathematical applications for construction Understand the effects of forces and temperature changes on materials used Use mathematical equipment to solve construction problems Unit 7- (3 lessons per fortnight) Exploring brick work and block work principles and techniques Understand tools, materials and equipment used for brick and blockwork Develop practical skills and safe techniques to construct brickwork and blockwork Mock NEA- Sustainable living-Making iterative models- draping on the stand and pattern cutting, Manipulating and joining materials, ensuring accuracy and structural integrity 	
	thinking and communication, characteristic properties of materials, categories of materials • Making iterative models	and working properties of materials, sources and origins, factors that influence selection, commonly available forms and standard units of measurement.	 NEA- contexts released 1st June Theory- Finishes, digital design tools, manufacturing methods and scales of production, costs and availability 	
Dance	Physical skills, technical skills, Expressive skills, mental skills and attributes, knowledge of action, dynamic, spatial and relationship content, choreographic processes, structuring devices, choreographic devices, aural setting, performance elements, evaluative, analytical, interpretative skills, critical skills. Students will engage with tasks that will allow them to employ the above knowledge and skill sets that link to Performance, Choreography and appreciation of professional works. The professional works from the theory exam will be introduced in this term and then studied throughout year 10 and 11	Physical skills, technical skills, Expressive skills, mental skills and attributes, knowledge of action, dynamic, spatial and relationship content, choreographic processes, structuring devices, choreographic devices, aural setting, performance elements, evaluative, analytical, interpretative skills, critical skills. Students will engage with tasks that will allow them to employ the above knowledge and skill sets that link to Performance, Choreography and appreciation of professional works. The professional works from the theory exam will be introduced in this term and then studied throughout year 10 and 11	Physical skills, technical skills, Expressive skills, mental skills and attributes, knowledge of action, dynamic, spatial and relationship content, choreographic processes, structuring devices, choreographic devices, aural setting, performance elements, evaluative, analytical, interpretative skills, critical skills. Students will engage with tasks that will allow them to employ the above knowledge and skill sets that link to Performance, Choreography and appreciation of professional works. The professional works from the theory exam will be introduced in this term and then studied throughout year 10 and 11	Dance club, performance opportunities in Christmas showcase, Dance Show, Shakespeare Festival, Whole school production, industry trips, theatre trips, workshop with visiting industry profs. * #
Drama	An Inspector Calls and Devising tasks. Section B - Review of a live performance. * # Knowledge: Understanding practices used in twenty- first century theatre-making, understanding production elements and theatrical conventions, understanding the roles of theatre makers including performers, directors and designers. Understanding social, historical and or cultural context including theatre conventions of a period. Understand characteristics of dramatic work including genre, structure, character, form, style, and language. Understand how meaning is communicated through performance conventions, use of space and relationships between performers and the audience.Understand themes and issues and character development. Skills: analyse and evaluate the work of theatre-makers. Recognise specific challenges for performers, directors and designers, Use subject specific terminology in discussing the work of theatre makers. Research skills. Rehearsing and line learning, vocal skills, physical skills, developing ideas and intentions, refining and amending work. Performing to an audience.	Revision of devising techniques with short devising practical SOL and portfolio practice questions. Ongoing work on An Inspector Calls and start of work on Performance from a text. #*Knowledge: Understanding practices used in twenty-first century theatremaking, understanding production elements and theatrical conventions, understanding the roles of theatre makers including performers, directors and designers. Understanding social, historical and or cultural context including theatre conventions of a period. Understand characteristics of dramatic work including genre, structure, character, form, style, and language. Understand how meaning is communicated through performance conventions, use of space and relationships between performers and the audience. Understand themes and issues, character development Skills: analyse and evaluate the work of theatre-makers. Recognise specific challenges for performers, directors and designers, Use subject specific terminology in discussing the work of theatre makers. Research skills. Rehearsing and line learning, vocal skills, physical skills, developing ideas and intentions, refining and amending work. Performing to an audience.	Component 1 GCSE Devising Exam +Ongoing work on AIC for Comp 3 exam #Knowledge: Characteristics of dramatic work, including genre, structure, character, form, style, language. How meaning is communicated through performance conventions, use of space, relationships between performer and audience. Skills: research, developing ideas and intentions, rehearsing, refining and amending work. Use of explorative strategies: improvisation, tableaux, hot seating, physical movement, soundscapes. Vocal and physical skills. Analyse and evaluate their own work and that of others. 2000 word Component 1 portfolio theory work. Understanding practices used in twenty-first century theatre-making, understanding production elements and theatrical conventions, understanding the roles of theatre makers including performers, directors and designers. Understanding social, historical and or cultural context including theatre conventions of a period. Skills: analyse and evaluate the work of theatre-makers. Recognise specific challenges for performers, directors and designers, Use subject specific terminology in discussing the work of theatre makers.	Visit to a live theatre production. The opportunity to take on role of Drama Captain and assist in running drama clubs for KS3. Performance or production opportunities in school productions. Industry visit and workshops. #*

French	Knowledge: Festivals: Cultural customs Types of festivals and how they are celebrated Perfect tense – describing a festival or celebration they have been to Life at School: School uniform, school rules, ideal school and how you would choose to improve your school Skills: Listening, reading, speaking, writing, translation Photocard Role Play	Knowledge: Healthy and Unhealthy Living: Food vocabulary and categories of food Exercise and sport Dangers of smoking, alcohol and drugs Using the imperfect tense to compare your health when younger to now Health resolutions Education Post-16: Plans for education post GCSE – college, 6th form, university, apprenticeships and training Skills: Listening, reading, speaking, writing, translation Photocard Role Play	Knowledge: Marriage and Partnership: Descriptions of boyfriends/girlfriends Ideal Partner Marriage and future plans (accommodation, relationships, children) Environment: Environmental problems and how we can try to reduce or prevent these Skills: Listening, reading, speaking, writing, translation Photocard Role Play	February – Presentation and Q+A about studying A Level Languages at Hills Road June – Why Not Languages at A Level? Cambridge University taster day for 10 students Intercollege European Day of Languages competition
Geography	2.3 Weather and Climate Why is the UK climate so variable? Circulation of atmospheric pressure. Weather hazard patterns Cause, consequences and responses of two contrasting weather events (Hurricane Katrina and the California Drought) Climate Change- cause and effect How has climate changed in the Quaternary period? Causes of climate change. Consequences of climate change. How and why do attitudes vary towards climate change? What can individuals do in the UK to reduce the risk of climate change? Sustainability, human and physical processes, risk, inequality, globalisation and interdependent, development Skills: Map skills (location, scale, changes over time), enquiry DME), writing and oracy (real texts and guided reading), numeracy and data skills (rate of erosion). AO1,2,3 and 4	2.1 Coasts Distinctive landscapes in the UK? How are coastlines managed? Why is coastal management often controversial? Predicted impacts of climate change on coastal landscapes and communities? Sustainability, human and physical processes, risk, globalisation and interdependent, development Skills: AO1,2,3 and 4 Map skills (location, scale, changes over time), enquiry DME Holderness), writing and oracy (real texts and guided reading), numeracy and data skills (rate of erosion).	2.2 Rivers Distinctive river landscapes in the UK. Why do rivers flood? What are the consequences of flooding? How can rivers be managed to reduce risk of flooding? Why is river flood management often controversial? Links to coasts and climate change. Sustainability, human and physical processes, risk, globalisation and interdependent, development Skills: AO1,2,3 and 4 Map skills (location, scale, changes over time), enquiry DME River Management), writing and oracy (real texts and guided reading), numeracy and data skills (rate of change).	Summer fieldwork
Health & Fitness	Knowledge (Health and Fitness): Body systems, energy systems, short and long term effects of exercise, Components of fitness, methods of training, principles of training Skills (Core PE): Outwitting opponents,	Knowledge (Health and Fitness): Fitness testing, normative data, methods of training, training zones, activity level and diet, lifestyle questionnaires Skills (Core PE): Replicating movements, outwitting, net/wall	Knowledge (Health and Fitness): Training programmes, warming up and cooling down, SPORT, FITT, Goal Setting, Training sessions, mock synoptic project Skills (Core PE): performing at maximum levels, striking and fielding	Extra curricular clubs Intra school sport Inter school sport Leadership Academy Officiating courses Sports Captains
History	Knowledge: Weimar and Nazi Germany c1918 – 1939 – Germany and WW1, T of V, Weimar government, Weimar culture, development of Nazi Party, role of Skills: evidence, investigation, causation, change and continuity, significance and interpretations	Knowledge: This term includes the completing of the Germany unit and then the following: Medicine in GB c1100 to date, including a depth study of the British section of the Western Front in WW1 – medieval medicine, Renaissance changes, hospitals, key figures, development of science, 20 th C medicine, NHS and modern techniques Skills: evidence, investigation, causation, change and continuity, significance and interpretations	Knowledge: Medicine unit continued (see Spring details) Skills: evidence, investigation, causation, change and continuity, significance and interpretations	Possible Trip: Battlefields Berlin IWM Films: The Wave Pain, Pus and Poison 1917 They shall not grow old
Hospitality & Catering	 Practical skills- recap knife skills, medium to high complexity savoury dishes and accompaniments, medium to high skilled desserts and accompaniments Recap food safety and hygiene legislation, personal safety, HACCP and the role of the EHO 	 Plating and presentation techniques- spun sugar, chocolate. Garnishes- vegetable and fruit Prom pudding project. UNIT 2 Theory- AC1.1- AC1.4, nutrients and their function in the body, nutrition needs of specific groups, effects of poor nutrition, how to cook/ store foods to preserve nutrients. 	 'Gastropub' Mock NEA Full mock NEA covering all assessment objectives 	
Latin	Cambridge Latin Course book 2. Language (knowledge): complex structures including: genitive case Imperative tense 'ut' clauses Civilisation (knowledge): The beginnings of Rome Different areas of Rome (the Hills, Subura, Ostia etc) Life in the City of Rome (houses, water supply) Skills:	Longer reading texts from Ashley Carter book Language (knowledge): complex structures including: Participles Indirect questions Civilisation (knowledge): Buildings and monuments in Rome The fora Skills: Translation & comprehension. Describing Roman life, essay writing.	Longer reading texts from Ashley Carter book Language (knowledge): complex structures including: Passive Civilisation (knowledge): Revision of topics Introduction to Literature (knowledge): Two texts from set texts: read and analyse for content and style Skills: Translation & comprehension.	Residential trip to Pompeii open to all year 10 and 11 students Day visit to the Museum of London for a 'handling session' of Roman artefacts.

	Translation 9 comprehension Describing		Analysis of literature for content and	
	Translation & comprehension. Describing Roman life, essay writing.		Analysis of literature for content and style. Essay writing	
Music Technology	Composing Music Genres – looking at core genres of music (pop, rock, blues, soul, jazz, disco, RnB, Hip Hop, EDM) Understanding key signature, harmony, and chord construction, melody, structure and technical features. Discussing how technology has changed the genre and should be explored. Outcome Assessment 1 – to be completed and to pass at least to a Level 2 Merit outcome. Outcome Assessment 2 - to be completed and to pass at least to a Level 2 Merit outcome.	Review of the subject area from Year 9. Consider methods of sound creation/design and develop ideas around capturing and creating sound. Editing sounds from libraries/loops to create original content. Using editing tools to manipulate the audio from a library. Cut, copy, paste, flex, glue and plug-ins to create original content. Creating special FX. Planning and testing of sounds. Using layering techniques to create realistic and useable sounds. Audio and synthetic sounds layered together. Interleaving microphone techniques. Outcome 1 Assessment Outcome 2 Assessment	Operating a DAW Review of the subject area from Year 9. Hardware and theory of sampling — discuss the hardware components in detail, building on the knowledge learnt from Year 9. A-D conversion and sample theory explained, noting sample rates, aliasing and nyquist equation. Synths and samplers, highlighting the difference between the two and how they work. Discuss ADSR explored in detail with attention to ADSR to change the timbre of an instrument.	Band Music Technology Club Song writing Club
PE	Skills (Core PE): Outwitting opponents, replicating movements	Skills (Core PE): Replicating movements, outwitting, net/wall	Skills (Core PE): performing at maximum levels, striking and fielding	Extra curricular clubs Intra school sport Inter school sport Leadership Academy Officiating courses Sports Captains
PSHE	Topic 1 – World of Work: Online reputation Post-16 research Personal Skills Resilience Topic 2 – My Money Matters: Cost of leaving school What is involved when being paid, e.g. Income tax, National Insurance, pension etc. Budgeting Debt and mental health	Topic 3 – Healthy Relationships:	Topic 5 – Personal Safety / Wellbeing:	Apprenticeships talk
RE	Sikhism beliefs # The nature of God God as the creator Nature of human life Karma, rebirth and mukti 5 stages of liberation Importance of being God-centred The oneness of humanity and the quality of all Equality and Guru Nanak, Guru Gobind Singh and Guru Granth Sahib Sewa Role of the Sangat Skills: Ao1: 1: Demonstrate knowledge and understanding of religion and beliefs including: AO1:2 beliefs, practices and sources of authority (Bible) AO1: 3 influence on individuals, communities and societies AO1:4 similarities and differences within and/or between religions and beliefs AO2:Analyse and evaluate aspects of religion and belief, including their significance and influence. Sikhism Practices # The gurdwara Guru Granth Sahib Langar Prayer in the home and mediating in God's name Festivals	Sikhism Practices continued Pilgrimage Birth and naming ceremony The initiation ceremony Skills: Ao1: 1: Demonstrate knowledge and understanding of religion and beliefs including: AO1:2 beliefs, practices and sources of authority (Bible) AO1: 3 influence on individuals, communities and societies AO1:4 similarities and differences within and/or between religions and beliefs AO2:Analyse and evaluate aspects of religion and belief, including their significance and influence. There will be questions throughout the lessons, looking at 4 and 5 mark questions and understanding how to answer. At the end of the Topic there will be a full skill test, with a full exam for Sikhism beliefs	Religion and life # Origins of the universe Value of the world Use and abuse of the environment Use and abuse of animals Abortion, Euthanasia, death and the afterlife The existence of God and revelation# the design argument the First Cause argument the arguments from miracles further arguments against the existence of god Special revelation and enlightenment General revelation Different ideas about the divine the value of revelation and enlightenment Skills: Ao1: 1: Demonstrate knowledge and understanding of religion and beliefs including: AO1:2 beliefs, practices and sources of authority (Bible) AO1: 3 influence on individuals, communities and societies AO1:4 similarities and differences within and/or between religions and beliefs AO2:Analyse and evaluate aspects of religion and belief, including their significance and influence.	St Peter and St Paul Church Walsingham pilgrimage trip
Spanish	Festivals Knowledge: Festivals: Cultural customs Types of festivals and how they are celebrated Perfect tense – describing a festival or celebration they have been to Life at School: School uniform, school rules, ideal school and how you would choose to improve your school Skills: Listening, reading, speaking, writing, translation Photocard Role Play	Knowledge: Healthy and Unhealthy Living: Food vocabulary and categories of food Exercise and sport Dangers of smoking, alcohol and drugs Using the imperfect tense to compare your health when younger to now Health resolutions Education Post-16: Plans for education post GCSE – college, 6 th form, university, apprenticeships and training Skills: Listening, reading, speaking, writing, translation Photocard	Knowledge: Marriage and Partnership: Descriptions of boyfriends/girlfriends Ideal Partner Marriage and future plans (accommodation, relationships, children) Environment: Environmental problems and how we can try to reduce or prevent these Skills: Listening, reading, speaking, writing, translation Photocard Role Play	February – Presentation and Q+A about studying A Level Languages at Hills Road June – Why Not Languages at A Level? Cambridge University taster day for 10 students Intercollege European Day of Languages competition

Role Play