

KS4 Curriculum Overview 2024-25

		Autumn Term	Spring term	Summer Term			
Form Time (All Years)		Form Activity – Monday Morpheme (Etymology), Guided Reading, Assembly/Collective Worship, Keeping Safe, Mental Health or Equality and Diversity PSHE – all forms discuss a resource or source evidence once a week. The topics are different every half term e.g. relationships, risk and safety, mental health, British Values and revision and study skills.					
Year 10	RE	Judaism - Practices	Catholic Christianity – Beliefs and teachings	Catholic Christianity - Practices	Catholic Christianity – Sources of Wisdom	Forms of expression and mock preparation	Philosophy and Ethics: Arguments for the existence of God
	English	A Christmas Carol Poetry Anthology	A Christmas Carol Poetry Anthology	Macbeth Poetry Anthology	Macbeth Poetry Anthology	An Inspector Calls Poetry Anthology	An Inspector Calls Poetry Anthology
	Science	Biology- Infection and responses, Chemistry Quantitative chemistry, Physics - Particles at work- electric circuits.	Biology - Infection and responses, Chemistry Quantitative chemistry, chemical changes, energy changes Physics - Particles at work- electricity in the home.	Biology- Bioenergetics Chemistry Quantitative chemistry, chemical changes Physics - Particles at work- Molecules and matter.	Biology- Homeostasis and response. Chemistry energy changes. Physics - Particles at work- Molecules and matter.	Biology- Homeostasis and response Chemistry – Organic chemistry Physics- Forces in action.	Biology Inheritance, variation and evolution Chemistry – Organic chemistry Physics- Forces in action.
	Food Technology	Introduction to the course Fruit and vegetable commodities Nutritional value Water soluble and fat-soluble vitamins Food provenance	Food science Dairy and eggs food commodities High Biological/low biological Protein, function, excess and deficiencies Nutritional content of dairy Pasteurisation of milk Bacteria used in foods production	Safe food storage Methods of heat transfer Cereal commodities Carbohydrates structure, function, excess and sources	Energy balance Primary and secondary processing Food science Packaging and the effect on the environment Fish and Meat commodities Food provenance	Nutritional needs Food choice Food science of meat and changes during cooking Fat structure, function, excess and sources. Meat alternatives	Food cuisine Different religions and cultures Food intolerances Food science investigation NEA style

	Design and Technology	Introduction to the course Materials and their properties <ul style="list-style-type: none"> - Papers and boards / timbers / metals / polymers - Evaluation and use of materials in everyday items - Working and physical properties Phone Holder – Practical skills project <ul style="list-style-type: none"> - Tools and equipment - Processes (Marking out / joints / cutting and shaping / material removal / vacuum forming / laser cutting / finishing and assembly) Common specialist technical principles <ul style="list-style-type: none"> - Forces and stresses - Functionality of materials - Energy and the environment / 6 Rs / Scales of production 		Designing principles <ul style="list-style-type: none"> - Investigation (Primary and secondary research) - Design brief and specification - The work of others (Designers and companies) - Design strategies Making principles <ul style="list-style-type: none"> - Selection of materials - Tolerances - Materials management - Surface finishes Designing for other practical project <ul style="list-style-type: none"> - Generating ideas - Mood boards and client research - Introduction to prototyping - Analysis of design ideas - Use of CAD – 3D rendering 		New and emerging technologies <ul style="list-style-type: none"> - Industry and enterprise - People / culture and society / Production techniques - Informing design decisions Energy, materials, systems and Devices – Practical elements <ul style="list-style-type: none"> - Energy generation and storage – Renewable and non renewable - Modern / smart and composite materials - Systems and electronics - Mechanical devices – levers / linkages / motion 	NEA – June - Context released for the students <ul style="list-style-type: none"> - NEA introduction and initial research - NEA Research analysis - NEA Design ideas - NEA prototyping
	Maths	F- Angles Scale Diagrams and bearings Number Factors and multiples Algebra Fractions Coordinates and linear graphs	Decimals and rounding Collecting and representing data sequences	Percentages Perimeter and area Circumference and area Real life graphs	Ratio and proportion Properties of polygons Equations Indices Standard form	Probability Transformations Congruence and similarity 2d representations of 3d shapes	Calculating with percentages Measures Statistical measures Constructions and loci
	Maths	H- Angles Scale Diagrams and bearings Number Factors and multiples Algebra Fractions and decimals Coordinates and linear graphs	Rounding Collecting and representing data Sequences Percentages	Perimeter and area Circumference and area Real life graphs Ratio and proportion Properties of polygons	Equations Indices Surds Probability Standard form Measures	Transformations Congruence and similarity 2d representations of 3d shapes Calculating with percentages	Statistical measure Constructions and loci
	History	People's Health 1250-today	People's Health 1250-today	Norman Conquest 1065-1087	Norman Conquest 1065-1087	Ribchester	Ribchester Living Under Nazi Rule
	Geography	UK's evolving physical landscape: River processes and pressures	UK's evolving human landscape:	UK's evolving physical landscape: Coastal change and Landscapes	Hazardous Earth: Climate	Hazardous Earth: Tectonics Development Dynamics	River landscape fieldstudy Changing rural landscapes fieldstudy
	Spanish	Travel and tourism	Life at school	Youth culture self-relationships and technology	Interests and influences	Home and locality Local and transport	Grammar and exams
	Computing	Data representation Practical programming	Designing and creating algorithms Practical programming	CPU Architecture Programming fundamentals	Boolean Logic Additional Programming techniques	Storage Practical programming	Networks and topologies

	Creative iMedia	<p>R093: Media industry sectors and products</p> <p>R093: How style, content and layout are linked to the purpose. Client requirements and how they are defined</p> <p>R093: Audience demographics and segmentation</p> <p>R093: What are media codes and how they are used</p>	<p>R093: Work planning and documents used to support ideas generation</p> <p>R093: Documents used to design/plan media products</p> <p>R094: Purpose, features, elements and design of visual identity</p>	<p>R094: Graphic design concepts and conventions</p> <p>R094: Properties of digital graphics and use of assets</p> <p>R094: Techniques to plan visual identity and digital graphics</p> <p>R094: Tools and techniques to create visual identity and digital graphics</p>	<p>R094: Technical skills to source, create and prepare assets for use within digital graphics</p> <p>R094: Techniques to save and export visual identity and digital graphics (with integrated R093 distribution considerations and file formats)</p> <p>R094: NEA Assessment (working on)</p>	<p>Produce and submit NEA for R094 Visual Identity and Digital Graphics.</p> <p>Portfolio production.</p> <p>Modify, store, save and export graphics.</p>	R097 Topic Area 1 – Plan Interactive Digital Media.
	Music	Composition – Pop Theory- Theory booklet MADTSHIRT	Composition – Jazz Theory – MAD TSHIRT Performance 1	Composition – Bhangra Composition Club dance-remix Fusion Theory - Area study 1 and 2 Raga	Composition – Waltz Theory - Area study 1 and 2 Set works - Three songs from Little Shop of Horrors Performance 2 - Ensemble	Composition – Waltz Set Work - Mozart clarinet concerto A major 3 rd movement Theory – AoS 2	Composition – Sequenced Performance Set Work - Mozart clarinet concerto A major 3 rd movement Theory – AoS 2 & 4
	Art	Still Life Project: Observational Drawing. Recording and collecting ideas.	Still life Project: Contextual Studies. Kira Kim analysis and re-sponse. Acrylic Paint. Photography.	Still Life Project: Experimentation and refinement. Mixed Media.	Still Life Project: Presenting a meaningful and personal outcome.	Identity Project: Recording and Collecting. Photography. Art History.	Identity Project: Experimentation. Printing techniques – lino and etching.
	PE Core	Communication	Teamwork	Motivation	Self-awareness	Problem Solving	Confidence
	PE Core	Netball/football	Handball Volleyball	OAA (Orienteering)	Table tennis/badminton	Athletics	Rounders/cricket
	PE GCSE	Team sport	Team sport	Team sport	Team sport	Individual event	Individual event
	GCSE Theory	Socio-cultural Influences	Commercialisation	Fitness, Health and Well-being	Training for Fitness (AEP)	Training for Fitness (AEP)	Muscular-skeletal System
	Cambridge National 1/ 2 in Sports Studies	R185 Performance and Leadership in Sports Activities	R185 Performance and Leadership in Sports Activities	R185 Performance and Leadership in Sports Activities	R185 Performance and Leadership in Sports Activities	R184 Contemporary issues in Sport	R184 Contemporary issues in sport
	PSHE	RSHE	RSHE	Careers and Finance	Mental Health and Well-being	Risk and Safety	Law and Democracy
	RE	Judaism: Practices	Philosophy and ethics. Arguments for the existence of God	Philosophy and ethics: Arguments for the existence of God	Religious teachings on relationships and families	Philosophy and ethics Relationships and families	Revision and exam prep
Year 11	English	Component 2 GCSE English Language & Revision and consolidation of GCSE English Literature texts	Components 2 GCSE English Language & Revision and consolidation of GCSE English Literature texts	Components 1 GCSE English Language & Revision and consolidation of GCSE English Literature texts	Components 1 & 2 GCSE English Language & Revision and consolidation of GCSE English Literature texts	Revision session and exam preparation	Revision session and exam preparation
	Maths	Gradients and lines Non-Linear Graphs Using Graphs	Expanding and factorizing Changing the subject functions	Multiplicative Reasoning Geometric Reasoning Algebraic Reasoning	Transforming and construction Listing and describing Show that...	Revision and exam preparation	Revision and exam preparation

	Science	Biology-Inheritance, variation and evolution Chemistry – organic chemistry. Physics – waves.	Biology- Ecology Chemistry- pure substances and mixtures, chemistry of the atmosphere, treating water Physics- electromagnetism,	Biology - Revision Chemistry revision Physics -Revision	Biology –Revision Chemistry -Revision Physics - Revision	Biology –Revision Chemistry -Revision Physics - Revision	Biology –Revision Chemistry -Revision Physics - Revision	
	Food Tech	<p>NEA 1 – Food science investigation - 15% of GCSE Introduction to the brief Students will complete a food science investigation based on the brief released on the 1st September. Prep for NEA1 Scientific assessment Food science research Writing a hypothesis Carrying out Food science investigation to understand the functional properties and science of ingredients. Analyse data and evaluation of findings Completion NEA1</p> <p>NEA 2 –Brief released November 35% of GCSE Grade Research brief Conduct Primary research</p>		<p>Conduct and evaluate trial dishes Explore and trial a variety of dishes Three-hour final practical of three dishes and accompaniments Evaluate and analyse final dishes and complete NEA2</p>		<p>Exam Theory -50 % of final grade</p> <p>Revision techniques and how to answer long extended questions.</p> <ul style="list-style-type: none"> Principles of nutrition Diet and good health Food provenance Food safety Food science Factors affecting food choice 		
	DT	NEA – 50% of course waiting			Exam Theory 50%			
	Due to 5 hour per 2 weeks at option subjects. They students will focus on completing 3 lessons per week of NEA work and 2 lesson per week of exam theory to ensure that the different content is delivered.							
		<p>NEA – Independent Project Students have started NEA at the end of Y10 when the initial brief was released. They are to work on and produce the following using a PowerPoint document also with physical models and drawings / sketches. Substantial design and make task Assessment criteria:</p> <ul style="list-style-type: none"> Identifying and investigating design possibilities Producing a design brief and specification Generating design ideas Developing design ideas Realising design ideas Analysing & evaluating Photographic evidence of the final manufactured prototype. 				<p>Exam Theory <i>Students will be taught a range of theory content. Some theory content will be recall and some will be new. Students will have a range of exam questions to complete based on the theory they have learned.</i></p> <ul style="list-style-type: none"> Understanding the exam Exam language Layout of questions and the paper <p>Core and technical principles linked to the exam knowledge the students will need. Each of the elements below can be expanded further to more detail of what can be included.</p> <ul style="list-style-type: none"> New and emerging technologies Energy generation and storage Developments in new materials Systems approach to designing Mechanical devices Materials and their working properties. 		
Maths	H-Probability Volume Algebra Scatter Graphs Numerical Methods	H- Equation of a circle Further equations and graphs Simultaneous equations revision	H- Sketching graphs Direct and inverse proportion Inequalities Pythagoras and trigonometry	H-Growth and decay Vectors Transforming functions Sine and cosine rule Circle theorems	H- Gradients and rates of change Pre-calculus and area under a curve Algebraic fractions	H-Revision		

	History	Living Under Nazi Rule	Viking Expansion	Viking Expansion	Revision	Revision	Revision
	Geography	Development Dynamics: India Challenges in an Urbanising world	Challenges in an Urbanising world: Mumbai People and the Biosphere	People and the Biosphere Forests under threat	Consuming energy resources Revision: Writing and thinking geographically, exam skills, past paper	Revision: Writing and thinking geographically, exam skills, past paper	Revision: Writing and thinking geographically, exam skills, past paper
	MFL-Spanish	Home and local area	Customs and traditions	World of work	Environment	Speaking exam and revision	Speaking exam and revision
	Computing	Threats to computer systems Defensive design considerations	Ethical, legal, environmental and cultural issues Searching and Sorting Algorithms	Programming project	Searching and sorting: practical programming Revision	Revision of all topics and exam technique	Revision of all topics and exam technique
	Creative iMedia	RO97 Topic Area 1 – Plan interactive digital media (continued) RO97 Topic Area 2 – Create interactive digital media RO97 NEA Production	RO97 Topic Area 3 - Review Interactive Digital Media Produce and submit RO97 NEA (January Submission)	Revision: RO93 Topic Area 1 – The Media Industry RO93 Topic Area 2 – Factors influencing product design	Revision: RO93 Topic Area 3 – Pre-Production Planning. RO93 Topic Area 4 – Distribution Considerations Exam Technique	Revision of all topics. Exam Technique.	Revision of all topics. Exam technique.
	Music	Composition – minimalism or composition to brief Area of study 4	Completion of composition 1 Mock performance – solo & ensemble All AOS listening	Completion of composition 2 Study pieces	Performance exam Complete compositions	Listening past paper Revision	Listening past paper Revision
	Art	Identity Project: Contextual studies.	Identity Project: Refinement. Presenting a meaningful response.	Externally Set Assignment: Recording and collecting ideas.	Externally Set Assignment: Contextual studies	Externally Set Assignment: Refinement and 10-hour exam	Revision
	PE GCSE	Team sport moderation prep	Team sport moderation prep	Individual	Individual	Revision and exam practice	Revision and exam practice
	PE Theory	Movement Analysis	Cardio-respiratory System	AEP	Sports Psychology	Revision and Exam Practice	Revision
	Cambridge National Level 1/2 in Sports Studies	R184 Contemporary Issues in Sport R187 Increasing awareness in Outdoor Adventurous activities	R184 Contemporary Issues in Sport R187 Increasing awareness in Outdoor Adventurous activities	R184 Contemporary Issues in Sport R187 Increasing awareness in Outdoor Adventurous activities	R184 Contemporary Issues in Sport R187 Increasing awareness in Outdoor Adventurous activities	R184 Contemporary Issues in Sport R187 Increasing awareness in Outdoor Adventurous activities	Revision and Exam
	PE Core	Negotiation	Leadership	Perseverance	Self-Evaluation	Resilience	Organisation
	PE Core	Netball/ football	Volleyball/ handball	OAA (Orienteering)	Table tennis/ badminton	Athletics	Rounders /cricket
	PSHE	RSHE	RSHE	Revision/ Study	Revision/ Study		