Core Subjects	Autumn Term					
Biology	Infection & Response: Pathogens and body defences. The immune system	Human Organisation 2: The vital biological processes of respiration	Plant Organisation: Plant transport syste		nd photosynthesis.	
	and principles of immunisations.	and metabolism.				
Chemistry	Chemical Reactions: The reactivity of n	netals and common reactions with acids.	Electrolysis and the reaction	profiles of exotherr	mic and endothermic reactions.	
English Language	Paper 1 Section A- Reading fiction. Stud analyse and evaluate the language and	Paper 1 Section B - Creative writing. Students will develop their ability to write effective descriptive and narrative pieces of writing.				
English Literature	19 th Century novel study- R.L Stevenson's 'Dr Jekyll and Mr Hyde'.		19 th Century novel study - R.L Stevenson's 'Dr Jekyll and Mr Hyde'. A selection of poems from the Eduqas GCSE poetry anthology.			
Maths – Foundation	Transformations	Sequences	Averages 2	Inequalities		
Maths – Higher	Accuracy and bounds	Area and perimeter and circles	Fraction and percentages 2			
Core PE	Football/ Netball/ Exercise to Music Rugby/ Handball/ Yoga		Basketball/ Dance/ Mindfull walking	Handball/ Basketb	all/ Box Fit	
Physics	<i>Energy Applications:</i> Gravitational, elas efficiency.	Nuclear Radiation: Nuclea	r radiation process',	Isotopes and decay, half-life		

Option Subjects	Autum	n Term		
Art & Design Computing	 Component 1-Portfolio Students will focus predominantly on producing observational studies from both secondary and primary sources, imaginatively exploring the given theme whilst trialling various materials, techniques/processes [AO2]. 1.1 Systems Architecture The unit begins by looking at the various components of the CPU used in the Von Neumann architecture. The unit concludes by examining the need for secondary storage devices and their practical advantages in given applications. 2.1 Algorithms This unit begins by looking at computational thinking, including abstraction and decomposition. Students are also be given practical experience of correcting and completing algorithms. 	 Component 1-Portfolio Students will focus predominantly on producing observational studies from both secondary and primary sources, imaginatively exploring the given theme whilst trialling various materials, techniques/processes [AO2]. 1.2 Memory and Storage This unit covers the conversion of integers from denary to binary, together with simple binary addition, overflow and shifts. In subsequent lessons, the use of hexadecimal numbers and the binary representation of characters is described. Representation of images and sound, and compression techniques are covered. 		
Creative iMedia	 Unit R093 – Creative iMedia in the media industry. 1.1 Media industry sectors and products Know the different sectors that form the media industry and how these are evolving 	 Unit R093 – Creating iMedia in the media industry. 3.1 Work planning & 3.2 Documents used to support ideas generation The purpose of work planning Know the components of workplans 		



 Know the types of products produced by, and used in, different 	 The role of workplan components in work planning
sectors	 The advantages of using workplans
• Know that the same product can be used by different sectors	• How workplans are used to manage time, tasks, activities and resources for
	individuals and large teams
2.1 How style, content and layout are linked to the purpose	To include:
 Know the different purposes of media products 	 Know the purpose of each document
 How style, content and layout are adapted to meet each purpose 	 Know the components and conventions of each document
	 Know the hardware and software used to create each document
2.2 Client requirements and how they are defined	 Know the users of each document
 How to recognise keywords and information in client briefs 	 When each document is appropriate for use
 Know the requirements in client briefs that inform planning 	 What makes each document effective
 Why requirements in client briefs can constrain planning and production 	• How to improve the effectiveness of documents for users in given contexts
 How to interpret requirements in client briefs to generate ideas and plan 	
 Know the different ways that client briefs are communicated 	3.3 Documents used to design and plan media products
	Know the purpose of each document
2.3 Audience demographics and segmentation	 Know the components and conventions of each document
 Know the different categories of audience segmentation 	 Know the hardware and software used to create each document
• Know examples of the way audiences are grouped for each segmentation	 Know the users of each document
type	 When each document is appropriate for use
 The reasons for, and benefits of, audience segmentation 	 What makes each document effective
• How audience characteristics influence the design and production of media	 How to improve the effectiveness of documents for users in given contexts
products	
	1.1 Purpose, elements and design of visual identity
2.5 Media codes used to convey meaning, create impact and/or engage	To include:
audiences	 What is meant by visual identity
• Know the different technical, symbolic and written codes used to convey	 That visual identity is used to communicate the
meaning, create impact and/or engage audiences	nature of brands and business' services or products
 How codes are used to convey meaning, create impact and/or engage 	 The component features of visual identity
audiences	• The elements of visual identity
 How the codes used relate to audience, purpose and context 	How visual identity relates to brand identity
 How the combination of content and codes work together to convey 	How visual identity elements are influenced by
meaning, create impact and engagement	business type, brand values and brand positioning
	How visual identity elements are combined to
	shape perception and create emotional response
	That visual identity needs to encapsulate brand
	values and be appropriate/relevant for the



		 audience and type of market That if the perception or impression created by visual identity is not in line with the desired brand identity, then it is not fit for purpose Using appropriate elements to create visual identity suitable for different target audiences/ consumers
Drama	Practise component 3Students will choose a specialism to develop for exam and will focus on this.Students are putting on a productionActors- learning lines, staging and characterisationMakeup artists/costume designers- designing for the character, makingcostumes and trial makeupLighting technicians- designing lighting showing to the group- recording in tothe desk.	Exploration of Blood Brothers Students will read the play and start to research the setting, costume, makeup, hairstyles, scenery and lighting for the play and present their findings to the class. They will also perform extracts from the play to put themselves in the position of the character to gain a deeper understanding to support responses to component 1 questions.
Food	 Unit 1: Food Nutrition and Health. Macronutrients (Carbohydrates, Protein & Fats) Micronutrients (Vitamins and Minerals) Special Dietary Requirements Students produce a wide range of healthy products, developing a repertoire of essential practical skills such as, Preparing, Shaping and Combining foods Use a range of equipment 	 Unit 2: Food Choice Sensory Evaluation British and International Cuisines Food Labelling Factors affecting food choice Students produce a wide range of healthy products, developing a repertoire of essential practical skills such as, Make Sauces (including roux sauce, infused) be able to show how starch is used. Setting a mixture by removing heat (gelation)
Geography	GCSE Paper 1: The Living World : Tropical Rainforests, adaptations, the Amazon Rainforest case study. Cold environments, adaptations to the cold (plants and animals), Svalbard case study, managing cold environments.	GCSE Paper 2: Urban Issues and Challenges: Rio de Janeiro, favelas, issues and challenges in favelas, managing slums. Liverpool city centre, issues and challenges around waste, education and transport. Exploring sustainable cities.
History	EDEXCEL GCSE History <u>Thematic Study: Medicine in Britain c.1250-Present Day</u> • Medieval	EDEXCEL GCSE History <u>Thematic Study: Medicine in Britain c.1250-Present Day</u> • Industrial



	Renaissance	Modern
GCSE PE	Components of fitness	Sports Psychology/ Principles of Training (AEP Course work Core Skills section
		1 and section 2 components of fitness)
Music	Performing, Composing and Appraising	
	Students will develop their knowledge and understanding of the Elements of M	lusic, through a wide range of Composition, Performance and Appraising
	activities. They will complete two solo performance assessments in preparation	n for the final performance assessment in Year 11
RE	Component 2	Continuation of Component 2
	Christianity: Beliefs and Teachings	Christianity: Beliefs and Teachings
	This is the study of what Christians believe and why they believe it. There is a	The beginning of Component 3
	focus on what Christians believe about God, where they get this view from	Islam: Beliefs and Teachings
	(Apostle's Creed/Nicene Creed) and beliefs about life after death.	This is the study of what Muslims believe and why they believe it. There is a
		focus on what Muslims believe about God, where they get this view from (The
		Qur'an, Hadith and Muslim history) and beliefs about life after death. This
		topic is very challenging as there are many Arabic words to be learnt.
Spanish	Las vacacciones - talking about present, past and future holidays and	Mi vida en el insti - Describing school, rules, points of view and problems,
	summertime activities.	activities and achievements in school. Planning a school exchange.
	Las vacacciones desastrosas - booking accommodation and dealing with	
	problems whilst abroad.	
Design Technology	Theory	Design & Make activity
	New and emerging technologies	Skills Assessment: Picture frame
	Energy generation & storage	Sustainable flat packed toy
	Systems – mechanical and electrical	

Core Subjects	Spring Term			
Biology	Inheritance: Cell division by meiosis to form gametes. Mendelian genetics including inheritance of genetic disorders eg cystic fibrosis. Biotechnological			
	techniques such as genetic engineering and cloning.			
Chemistry	The Rate and Extent of Chemical changes: Factors that affect rate of reaction	Organic Chemistry: The basics of hydrocarbons and how we separate crude		
	such as concentration, temperature, surface area and the effect of catalysts.	rature, surface area and the effect of catalysts. oil into fractions. The cracking of alkanes to form alkenes.		
English Language	Paper 2 Section A- students will develop their ability to summarise, analyse	Paper 2 Section B- students will study how to write effective non- fiction		
	and compare unseen non-fiction extracts.	pieces such as formal letters, essays, articles and speeches.		
English Literature	Modern play study- J.B Priestley's 'An Inspector Calls'.	Modern play study- J.B Priestley's 'An Inspector Calls'.		



	A selection of poems from the Eduqas GCSE anthology.		A selection of poems from the Eduqas GCSE anthology.			
Maths – Foundation	Volume and surface area	Fractions and percentages calculations			tion	
Maths – Higher	Surds	Pythagoras and Trigonometry 2	Proportion 2	Quadratics and graphs Functions		
Core PE	Futsal/ Volleyball/ Orienteering	Flag football/ Fitness/Table Tennis	Fitness/Invasion games/Dodgeball	Athletics/ Danish longball/Ultimate Frisbee		
Physics	<i>Forces</i> : resultant forces, speed and acceleration, distance/time and velocity/time graphs, Newton's laws of motion, weight and mass.					

Option Subjects	Spring	g Term
Art & Design	Component 2 –Exam	Component 2 –Exam
	Students will be introduced to various themes and suggested artists whilst	Students will continue being introduced to various theme-based artists [AO1],
	now choosing their own materials and techniques and recording their	materials and techniques [AO2] whilst learning to record [AO3] their
	explorations through constructing cohesive contextual study pages within	explorations through constructing cohesive contextual study pages within
	their sketchbooks.	their sketchbooks.
Computing	1.3 Computer networks, connections and protocols	2.4 Boolean logic
	The unit explain the Internet and IP addressing, with practical exercises to	This unit examines Boolean logic diagrams and truth tables. Testing and error
	help students understand the role of packet switching and DNS services. The	handling is covered using practical examples, including the use of the
	lessons look at star and mesh LAN network topologies and Ethernet. Wireless	common tools and functions of an IDE.
	networking and encryption are covered in subsequent lessons.	
	1.4 Network security	
	This unit examines the threats and vulnerabilities of computer systems and	
	programs, including social engineering and the concept of SQL injection.	
	Encryption and penetration testing are covered as examples of various	
	methods of preventing vulnerabilities.	
Creative iMedia	R094 – Mandatory Controlled Assessment Skills	R094 – Mandatory Controlled Assessment Skills
	2.3 Techniques to plan visual identity and digital graphics	3.3 Techniques to save and export visual identity and digital graphics
	To include:	To include:
	 Creating mood boards with relevant content using 	 Saving of files for visual identity and digital
	physical materials - pictures, text, colours placed on	graphics as high resolution, proprietary format,
	large sheet/board	master files as an archive for further edits
	 Creating digital mood boards using digital images 	 Repurposing and exporting of visual identity



collected from web and other sources, placed on	and digital graphics in file formats and image
documents/slides in software applications	properties which meet client requirements
 Using mind maps drawn out on paper or using 	
software applications to expand ideas and identify	R094 – NEA
details	Controlled assessment set by exam board. Worth 30% of final grade.
 Using concept sketches to develop ideas 	R094 is split up into 3 assessment areas:
 Using visualisation diagrams to show design ideas 	Topic Area 1 – Develop visual identity
and possible layouts, sketched with annotations or	Topic Area 2 – Plan digital graphics for products
concept art created in software applications	Topic Area 3 – Create visual identity and digital graphics
3.1 Tools and techniques of imaging editing software used to create digital	
graphics	
Examples of tools and techniques used to create digital	
graphics may include:	
 Setting the canvas size - expanding or modifying 	
 Using layout tools to help the placement of assets 	
e.g. grids, guides and rulers	
 Using drawing tools e.g. shapes, colour fill, 	
gradients	
 Using brightness and contrast, levels, colour 	
balance, hue, saturation	
 Using selections based on shape, colour or edge 	
contrast	
 Using layers to structure a graphic, create, merge, 	
rename, change opacity	
 Using layer styles to enhance the visual impact e.g. 	
drop shadows, effects, textures	
 Using retouching techniques to remove unwanted 	
elements e.g. cloning, healing, blur, colour	
swatches, colour picker, pencil, brush.	
3.2 Technical skills to source, create and prepare assets for use within digit	al
graphics	
To include:	
 Using internet, stock libraries or client library to 	
search for suitable image assets	
 Downloading/obtaining images and graphics, 	
copying from download folder to working asset	



	folder	
Drama	 Understanding different genres Explore different genres through practical performance. To help students find a preferred/ most successful genre. Students will also learn about juxtaposition and the different ways it can be used in performance. Students will create performances from a mixture of genres ensuring to use some of the key features. 	Monologues and duologues Students will be devising their own monologues and duologues based on a given theme/stimulus. They will look at examples performed professionally and read examples from plays. They will look at structuring their own and develop background information to support the spoken monologue and give depth to the character.
Food	Unit 3: Food Provenance • Food and the environment • Food production • Sustainability • Food processing Students produce a selection of products with a focus on food styling and presentation, food hygiene and food choice. • Making a dough (shortening, gluten formation, fermentation) • Shaping and finishing a dough (rolling out dough/pasta) • Glazing and finishing dough (Piping choux buns)	 Unit 4: Food Science Cooking of food Proteins and Enzymic Browning Carbohydrates Fats and Oils Raising Agents
Geography	GCSE Paper 1: Coasts: waves, weathering and erosional processes, transportation and depositional features. How geology is influenced and formations of coastal landforms. Hard and Soft engineering in the UK – Holderness coastline.	GCSE Paper 1: Rivers: fluvial processes, erosional, transport and deposition features of a river, fluvial landforms and their processes. The River Severn, human and physical factors that put our rivers at risk, hydrographs and the cost of engineering our rivers for protection against flooding (Cockermouth floods).
History	EDEXCEL GCSE History Thematic Study: Medicine in Britain c.1250-Present Day Historic Environment component – Medicine and the Western Front 1914-18 Injuries, treatment and the trenches.	EDEXCEL GCSE History Medicine in Britain Practise examination. <u>Modern Depth Study: Weimar and Nazi Germany 1918-39</u> Key Topic 1: The Weimar Republic 1918-29 Key Topic 2: Hitler's Rise to Power 1919-33
GCSE PE	Prevention of Injury/ Applied Anatomy	Skeletal System/ Muscular System
Music	Performing, Composing and Appraising The focus will be the development of the necessary skills to perform and compo- study the set work, 'Africa' by Toto. They will further develop appraising skills w performance assessment	



RE	Continuation of Component 3	Continuation of Component 1
	Islam: Beliefs and Teachings	Philosophy and Ethics: Relationships
	Component 1	Component 2
	Philosophy and Ethics: Relationships	Christianity: Practices
	This is the study of modern-day issues within relationships. Students will be	Within this topic, we revisit key Christian beliefs but now we also learn about
	able to link their belief and teachings knowledge from both Islam and	Christian practices. This will include the study of baptism, pilgrimage and
	Christianity to this topic and be able to explain certain religious views on	Christian festivals.
	topics such as marriage, adultery, same sex relationships and the role of men	
	and women.	
Design	Theory	Design & Make activity
	Materials and properties (wood, metal, Polymers, new and smart materials)	Skills assessment: Childs push along toy (mechanisms and a wide range of
	manufacturing techniques (for all material groups, industrial and school	tools and processes).
	based)	Mini Practice NEA: Lighting based on a design style.
Spanish	"Mi gente" - debating use of social media and books. Using the continuous	"Intereses e influencias" - discussing interests and influences using contrasts
	present tense. "Relaciones" - talking in detail about relationships and using	and a variety of tenses.
	idioms to describe others.	

Core Subjects						
Biology	<i>Homeostasis & Response:</i> The structure of the nervous system and how we respond to stimuli. The organs involved in the endocrine system and its role in the balance of the body's internal environment.					
Chemistry	<i>Chemical Analysis:</i> During this topic students will learn how chemists analyze substances. This will include chromatography and common gas tests. Using Resources: Finite and renewable resources. Water treatment, carrying out life cycle assessments and how we can reduce, reuse and recycle.					
English Language	NEA: Spoken Language . Students will research, plan, write and deliver a presentation on a topic of their choice to achieve an NEA grade of either: Pass, Merit or Distinction.			Revision and preparation of topics for mock examinations.		aminations.
English Literature	Students will complete their study	udents will complete their study of the Eduqas GCSE poetry anthology.		Students will complete their study of the Eduqas GCSE poetry anthology. Revision and preparation of topics for mock examinations.		
Maths – Foundation	Pythagoras and Trigonometry	Quadratics		Circles and Cylinders	Revision and p examinations	rep for Year 10 mock
Maths – Higher	Sequences and iteration	Simultaneous equations	Inequalities	Cumulative frequency and histograms	Probability 2	Revision and prep for Year 10 mock examinations
Core PE	Softball/ Athletics/ Tennis	Tennis/ Rounders	s/ Volleyball	Cricket/ Tennis/ Rounders		
Physics	Magnets and Electromagnets: Magnetic fields and interactions, Earth's magnetic field, electromagnets, the motor effect, Flemings Left Hand Rule.					



Option Subjects	Summer Term		
Art & Design	Component 1 -Portfolio Students will learn to develop their ideas, producing self-directed/ explorative photoshoots enabling them to derive their own personalised responses to the given theme [AO4]. This will lead towards and inform their end of year Art exam piece.	Component 1 -Portfolio Students will continue learning to develop their ideas, producing self- directed/ explorative photoshoots enabling them to derive their own personalised responses to the given theme [AO4]. This will lead towards and inform their end of year Art Summer exam piece.	
Computing	1.5 Systems software The unit continues to focus on operating systems software, their function and typical utility software programs including defragmentation and compression programs.	 2.2 Programming Fundamentals and 2.3 Producing robust programs These programming units cover the theoretical aspects of programming of th GCSE Computer Science specification. The basic programming constructs are covered as well as string manipulation and file handling. Iteration and arrays are subsequently covered, before examining the use of procedures and functions to structure code. Practical Programming with Python Students are given the opportunity to undertake programming task in order to solve a problem (or problems) 	
Creative I Media	 R094 - NEA Controlled assessment set by exam board. Worth 30% of final grade. R094 is split up into 3 assessment areas: Topic Area 1 – Develop visual identity Topic Area 2 – Plan digital graphics for products Topic Area 3 – Create visual identity and digital graphics 	 R097 – Creating interactive digital media. R097 is all about creating a piece of interactive digital media that satisfies a client brief. The client brief will be given to you at the beginning of the project by your teacher and you will work through this brief and create the interactive digital media that is requested by the client. In the module you will develop and plan your interactive digital media and then create the digital media that you have developed. In the module you will rely on the knowledge that you will have already studied as part of modules R093 and R094. 	
Drama	Devising log (section 1) and devising from a stimulusStudents will be given the stimulus for their final component 2 GCSE. They willuse computers to research the stimulus and develop a final idea to sharewhen they are put in to groups.They will learn how to write about this process and complete section 1 oftheir devising log.	Devising Log and Component 2 GCSE stimulus Students will choose their groups for their final component 2 performance. Students will start to devise a performance from the given stimulus following their developed specialism- acting singing dancing lighting or costume and makeup. Students will share, discuss and create new ideas from their original independent research.	



		Students will self and peer assess as well as make improvements from staff
		feedback.
Food	Unit 5: Food Safety	Mini Mock NEA 2
	Enzymes and Food Spoilage	Food Practical Assessment: Students are required to complete a food
	Microorganisms	practical non-examination assessment where elements of food preparation
	Bacterial contamination	skills will be assessed alongside food and nutrition knowledge. Students will
	Storage of food	be assessed on their knowledge of:
	Food preparation	Sensory Analysis
		Nutrition
	Practical skills	Food choice
	Knife Skills (including portioning a chicken/filleting a fish)	• Seasonality
	Setting a mixture by heating (coagulation)	• Special dietary requirements Students will produce a portfolio of evidence to support the rationale behind
	Using Raising Agents	their practical assessment.
Geography	Urban Issues and Challenges	<u>Fieldwork</u>
	Global Urban change, migration, megacities, Rio de Janeiro, opportunities and	Human, Liverpool: Explore the impact that migration has had on the culture of
	challenges.	Liverpool city centre.
		Physical, Formby: Investigate the impact that vegetation has on the sand
		dunes.
History	EDEXCEL GCSE History	EDEXCEL GCSE History
	Modern Depth Study: Weimar and Nazi Germany 1918-39	Modern Depth Study: Weimar and Nazi Germany 1918-39
	Key Topic 2: Hitler's Rise to Power 1919-33 (continued)	Key Topic 4: Life in Nazi Germany, 1933-39
	Key Topic 3: Nazi Control and Dictatorship 1933-39	
		Weimar and Nazi Germany review and practice examination
GCSE PE	Movement Analysis/ Respiratory and cardiovascular system	Effects of exercise/ Section 3 coursework AEP: Movement analysis and
		classification of skill
RE	Continuation of Component 2	Continuation of Component 1
	Christianity: Practices	Islam: Practices
	Component 1	
	Islam: Practices	Exam Practice
	This topic of study allows students to reflect on their Islamic beliefs and	
	teaching topic and link them with how Muslims show their faith through their	
	actions. We will be studying festivals, the 5 Pillars, Shi'a and Sunni traditions	
	and Jihad.	



Spanish	<u>"Cuidades"</u> - Places in town, souvenir shopping, directions and case studies of Hispanic towns.	Recaps, revision and end of year assessments	
Music	Performing, Composing and Appraising Students will complete their first piece of Composition coursework and prepare practical pieces for their solo practical coursework recording, in the first term of Y11. They will focus on the appraising skills associated with the Area of Study: Music for Ensemble and Popular Music and study the set work 'Badinerie' by J.S. Bach.		
Design Technology	Theory Responsible design and approaches to designing Revision / year 10 examination & Feedback Preparation for and begin NEA	Design & Make activity Skills assessment: Digital SLR Camera scale model. Begin NEA (June 1 st) Cover Research and Brief / Specification sections.	