

Year 10 Curriculum Plans

Core Subjects	Autumn Term			
Biology	Homeostasis - Explore the process of homeostasis and the endocrine system.		Nervous System - Investigate the structure of the nervous system and reflex actions.	
Chemistry	Rates of Reaction - Investigate the reactivity of chemicals and explore the variables that can be manipulated in order to speed them up or slow them down.		Hydrocarbons - Investigate why the chemistry of carbon compounds is so important that it forms a separate branch of chemistry.	
English Language	Paper One Reading - Students will explore the fictional reading comprehension element of their English Language course focusing on analysis of short stories and extracts from 20th century texts.		Paper One Writing - Students will develop their creative writing skills drawing on key techniques as well as looking at how to develop more detail within their own descriptive writing.	
English Literature	'Unseen' Poetry - An exploration of a range of new poems which students will analyse in detail considering the language, structure, message and ideas within the poems in preparation for a GCSE style assessment.		A Christmas Carol - Students will engage in a close study of Dickens' classic drawing on key ideas as well as structural and language techniques in order to write a critical response of one of the novella's key themes or characters.	
Maths – Foundation	Transformations - Reflections, rotation, enlargement and translations on a set of axis	Sequences - Continuing linear sequences and finding rules	Averages 2 - Using a range of data to analysis spread focus on tables	Inequalities
Maths – Higher	Fractions and percentages 2 - Calculating and manipulating fractions and percentages Volume and surface area - exploring 3D shapes	Transformations and construction - Reflections, rotation, enlargement and translations on a set of axis	Surds - Manipulating and simplifying surds Pythagoras and trigonometry 2	Proportion 2 - Exploring multiplicative reasoning
Core PE	Healthy Body	Healthy Mind	Healthy Body	Healthy Mind



	Pathway 1 - Football + Rugby Pathway 2 - Netball + Badminton Pathway 3 - Netball + Badminton	3 strands of Health	Pathway 1 - Badminton + Handball Pathway 2 - Yoga + Futsal Pathway 3 Yoga + Box Fit	Mental Preparation and Relaxation
Physics	Forces - Investigate forces and how engineers analyse forces when designing a great variety of machines and instruments.		Motion - Investigate forces, accelerations and Newton's Laws of motion.	



Option Subjects	Autumn Term	
Art & Design	Introduction to Component 1: Portfolio - Zoo project - Students explore a variety of drawing techniques, processes and materials.	
Computing	Unit 1.1 Systems Architecture Unit 2.1 Algorithms	Unit 1.2 Memory and Storage Unit 2.2 Programming Fundamentals Python Programming Skills
Drama	Set study text: 'Blood Brothers' by Willy Russell Practical exploration of the play-text, focusing on characterisation, plot, themes and physical and vocal skills as an actor	Preparation for, and undertaking of a practice GCSE written examination (Component 1: Understanding Drama) will be conducted, as well as a practice performance, internally assessed (Component 3: Texts in Practice).
Music	Introduction to area of study 1: Forms and Devices with terminology as appropriate: Performing - establishing standards and setting targets: first practical assessment.	Introduction to area of study 4: Popular Music, with terminology: rock and pop Introduction to prepared extract – Toto - Africa
Food	Food safety when making, buying and storing food. Seasonal food, food miles, reducing food waste. Nutrition: micro nutrients, macronutrients, Sensory testing, Preparation skills: Pastry, Sauce making, Presentation skills.	Food safety when making, buying and storing food. Seasonal food, food miles, reducing food waste. Nutrition: Protein, Sensory testing, Preparation skills: Pastry, Sauce making, Presentation skills.



Geography	Urban Issues and challenges	Urban Issues and Challenges
History	Why did medical understanding barely change in the years 1250-1500? Did the Renaissance period, 1500 - 1700, actually change medicine that much?	Was Pasteur's discovery of 'Germ Theory' the biggest turning point in the history of medicine? How have changes in government attitudes, science and technology improved medicine since 1900?
GCSE PE	Practical Netball Football Badminton	Theory Topic 1.1a Skeletal System Topic 1.1b Muscular System Topic 1.1c Movement Analysis Topic 1.1d Cardiovascular/Respiratory Systems
RE	Christian Beliefs	Issues of Relationships
Sports Science	R042- Applying Principles of Training	LO1 - Knowing the principles in a sporting context LO2- Know how training methods target different fitness components LO3 - Be able to conduct fitness tests LO4 -Be able to develop fitness training programmes
Spanish	Las vacaciones - Talking about holiday preferences and booking accommodation.	

Core Subjects	Spring Term			
Biology	Inheritance & Variation - Explore genetics and investigate how the genetic code gives rise to variation.		Evolution - Explore the origins of natural selection and Darwinism	
Chemistry	Chemical Analysis - Explore how analysts have developed a range of qualitative tests to detect specific chemicals.		The Atmosphere - Investigate the Earth's dynamic and forever changing atmosphere and how scientists are able to predict changes in weather and climate.	
English Language	Paper One Writing - Students will develop their creative writing skills drawing on plot, characterisation and setting as well as looking at how to structure their own narrative.		Paper Two Writing - Students will develop their transactional writing skills for five non-fiction texts beginning with articles, speeches and letters.	
English Literature	Poetry Anthology - Students will explore poems from an anthology focusing on the themes of power and conflict.		Poetry Anthology - Students will explore poems from an anthology focusing on the themes of relationships, nature and death as well as various others.	
Maths – Foundation	Volume and surface area - Exploring 3D shapes	Fractions and percentage calculations	Construction, loci and bearings - Accurate drawings using maths equipment	
Maths – Higher	Quadratics - Plotting and solving quadratic equations	Functions - Understand function notation and manipulate functions	Sequences and iteration - Finding rules of sequences including quadratic sequences	Simultaneous equations - including linear and quadratic combinations Inequalities
Core PE	Healthy Body Pathway 1 - Basketball + GAelic Football Pathway 2 -Handball + Table Tennis	Healthy Mind Training Zones	Healthy Body Pathway 1 - Fitness + OAA Pathway 2 - Boxercise + OAA Pathway 3 - Mindful running/walking + OAA	Healthy Mind Training Methods



	Pathway 3 - Exercise to Music + Table Tennis			
Physics	Waves - Investigate wave behaviour and explore how modern technologies utilise most electromagnetic waves.		Magnetism - Investigate permanent and induced magnetism, magnetic forces and fields	



Option Subjects	Spring Term	
Art & Design	Component 1: Portfolio - Zoo project - Development and refining of ideas, making links to the work of artists, designers.	
Computing	Unit 2.2 Programming Fundamentals Unit 2.4 Boolean Logic Python Programming Skills	Unit 2.2 Programming Fundamentals Python Programming Skills
Drama	Component 1: Understanding Drama- Students will watch and study a pre-recorded live theatre performance in preparation for a practice written examination (20% of overall GCSE).	Component 2: Devising Drama Students will extensively explore devised work from a variety of stimuli in preparation for Component 2 (40% of overall GCSE), working in small groups as an actor or designer to develop and shape a devised performance from a given stimulus.
Music	Introduction to area of study 2: Music for Ensemble Performing in smaller ensembles; (e.g. chamber music, jazz, musical theatre etc) as suited to learner interests. Composing using texture and sonority (chords and melody)	Introduction to area of study 3: Film Music, with devices and terminology:
Food	Nutrition: Carbohydrates Carbohydrates: Function and chemical properties – gelatinisation Practical investigation: Viscosity of sauces or sauce making methods (all in one, roux, microwave, blended) Exam prep is done in lessons. Practical challenges eg Choux Pastry, pasta	Carbohydrates: Function and chemical properties – caramelisation and dextrinisation



Geography	The challenge of natural hazards	The Changing economic world
History	The British sector of the Western Front - wounds, injuries and treatments, 1914-1918.	Early Elizabethan England - how successful was Elizabeth's religious settlement? Threats to Elizabeth from home and abroad - how secure was Early Elizabethan England?
GCSE PE	Practical Handball AEP Fitness Tests	Theory Topic 1.1e Long and Short Term Effects of Exercise Topic 1.2a - Components of Fitness Topic 1.2b - Principles of Training
RE	Issues of Life and Death	Issues of Life and Death
Sports Science	R046 - Technology in Sport	LO1- Know how technology is used in sport LO2 - Understand the positive effects of sports technology LO3- Understand the negative effects of sports technology LO4 - Evaluate the impact of technology in sport
Spanish	Mi gente - talking about families and relationships	

Core Subjects		Summer Term			
Biology	Ecology - Investigate the delicate and intricate balance of ecosystems.		Biodiversity - Explore how humans are threatening biodiversity as well as the natural systems that support it. Synoptic review of the curriculum.		
Chemistry	Resources - Explore how industries use the Earth's natural resources to manufacture useful products and the effect that this has on the environment.		Sustainable Development - Explore how environmental chemists study how human activity has affected the Earth's natural cycles, and how damaging effects can be minimised. Synoptic review of the curriculum.		
English Language	Paper Two Writing - Students will continue to develop their transactional writing skills for non-fiction: this half-term will focus on essays and leaflets.		Spoken Language - This is a separate qualification for 'Spoken Language' in which students will plan and deliver a speech to their peers.		
English Literature	Macbeth - Students will focus on key themes, characters and plot as well as analysing key scenes in the play.		Macbeth - Students will focus on key themes, characters and plot as well as analysing key scenes in the play.		
Maths – Foundation	Proportion - Exploring multiplicative reasoning	Pythagoras and trigonometry	Quadratics - Plotting and solving quadratic equations	Circles and cylinders - Area, surface area and volume	
Maths – Higher	Cumulative frequency and histograms - plotting and interpreting	Further graph work	Algebraic fractions and further algebra	Sine and cosine rules	
Core PE	Healthy Body Pathway 1 -Athletics Pathway 2 -Athletics Pathway 3 - Athletics	Healthy Mind Components of Fitness	Healthy Body Pathway 1 - Cricket + Rounders Pathway 2 - Volleyball + Rounders	Healthy Mind SMART Targets	



			Pathway 3 -Volleyball + Rounders	
Physics	Electromagnetism in Action - Investigate electromagnetism and how electromagnetic effects are used in a wide variety of devices.		Space Physics, Synoptic review of the curriculum.	

Option Subjects	Summer Term	
Art & Design	Component 1: Portfolio - Zoo project - development and completion of a final piece. Introduce People and Places project	
Computing	1.4 Network Security 1.5 Systems Software	Python Programming Skills Consolidation of Year 10 units
Drama	Component 2: Devising Drama: Students will continue Component 2: Devising. Internally assessed and externally moderated.	Drama MOT Students will examine their own developed skills and detect gaps in their knowledge and skill-set. Topics will be revisited where required and one off workshops will help support students.
Music	Revisiting topics from year 10 using different pieces as examples. Complete composition project (of choice) and submit	Working on ensemble and solo performances. Refining composition ready to have finished before the end of the year. Revising topics ready for mock exam.
Food	Food choice, special dietary needs and food science Practical challenges: Filleting fish, fish pie, fish cakes, making a Hollandaise sauce/Mayonnaise Nutrition: Fats and oils Fats: Function and chemical properties – shortening and plasticity Fats: Emulsification	
Geography	The changing economic world	Rivers/Fieldwork



History	Why did the English defeat the Spanish Armada? What was life like in Early Elizabethan England - poverty, sport and pastimes, education.	Why was there a boom in exploration during the reign of Elizabeth? Why did attempts to colonise Virginia fail?
GCSE PE	Practical Athletics Basketball Tennis Cricket	Theory Topic 1.2c - Warm ups and Cool Downs Topic 2.2 - Goal setting, Guidance and Feedback
RE	Islam beliefs	Issues of Good and Evil
Sports Science	R041 - Preventing Injuries in Sport	LO1 - Factors which influence the risk of injury LO2 - Warm up and Cool Down LO3- Responding to Injuries LO4- Responding to Common Medical Conditions
Spanish	Intereses y influencias - Talking about sports and free time activities	