

Y11: Subject Curriculum Outline

ear 11 Subjects	Term One	Term Two	Term Three	Term Four	Term Five	Term Six
Mathematics: (Higher)	Vectors & geometric proof	Reciprocal & exponential graphs, gradient & area under curves Recognise, sketch, and interpret graphs of reciprocal and exponential functions; state when they are undefined Explore and solve growth and decay problems using exponential functions and calculators Apply and describe transformations of functions (linear, quadratic, cubic) using algebraic notation Estimate areas under curves using trapezia Interpret and estimate gradients of linear and non-linear graphs, including in distance—time, velocity—time, financial, and real-life rate-of-change contexts Preparation for 1 st PPE	 Recognise and interpret graphs and tables showing direct and inverse proportion, including square and cubic relationships Write and use equations for direct and inverse proportion (e.g. y = kx, y ∝ 1/x²) Solve word problems involving proportionality by finding and using the constant k Plot and read values from graphs to solve proportion problems Feedback from PPE 		Revision & final exam prepare	ration



Mathematics:
(Foundational)

Fractions, indices & standard form

- Add, subtract, multiply, and divide mixed numbers (including with whole numbers)
- Find reciprocals of integers, decimals, and fractions
- Understand a reciprocal as the multiplicative inverse (non-zero × reciprocal = 1; zero has no reciprocal)
- Apply index laws, including powers of powers and zero power
- Simplify and calculate with integer powers and fractions
- Convert
 between standard form
 and ordinary numbers
- Add, subtract, multiply, and divide in standard form
- Use and interpret standard form on a calculator

Similarity & congruence

- Prove triangle congruence using SSS, SAS, ASA, and RHS
- Solve angle problems using congruence and similarity
- Identify and reason with similar shapes, including circles and regular polygons

Vectors

- Use vector and column notation
- Understand vector direction, magnitude, and scalar multiples
- Add, subtract, and scale vectors graphically and using column vectors
- Find vector lengths using Pythagoras' Theorem
- Calculate resultants and solve geometric problems involving vectors and simple ratios

Advanced algebra

- Distinguish
 between equations and identities; use ≠
 symbol
- Change the subject of a formula involving squares and roots
- Use algebraic proofs with expressions
- Solve problems involving inverse proportion, including using and interpreting graphs
- Find equations of lines from two points; interpret gradients from ax + by
 c
- Recognise and sketch cubic and reciprocal graphs

Feedback from PPEs, revision & final exam preparation

Fractions, indices & standard form

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- Find reciprocals of integers, decimals, and fractions
- Understand a reciprocal as the multiplicative inverse (non-zero × reciprocal = 1; zero has no reciprocal)
- Apply index laws, including powers of powers and zero power
- Simplify and calculate with integer powers and fractions
- Convert between standard form and ordinary numbers
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Similarity & congruence

- Prove triangle congruence using SSS, SAS, ASA, and RHS
- Solve angle problems using congruence and similarity
- Identify and reason with similar shapes, including circles and regular polygons
- Understand and apply similarity in 2D, including scale factors and their effects on perimeter, area, and volume
- Interpret scale diagrams, maps, and bearings as similar to real-life objects



 Measuring reaction rates through changes in mass or volume; understanding how to interpret and calculate rates from

Core Knowledge:

graphs.

Science: Double

Award

(See below for

Triple Science

Curriculum)

Reactions

Describing how temperature, concentration, surface area, and catalysts influence the rate of a chemical reaction based on collision theory.

Understanding dynamic equilibrium, Le Châtelier's principle, and how changing conditions like temperature, concentration, and pressure affect the position of equilibrium.

Forces and Balance and Motion **Core Knowledge:**

 Understand scalar and vector quantities, the difference between contact and non-contact forces, and how to calculate resultant forces. Apply Newton's First Law to predict motion and Newton's Third Law to describe force pairs in interactions. Use freebody diagrams and centre of mass concepts to analyse objects in equilibrium.

Rate and Extent of Chemical Waves **Core Knowledge:**

• Different types of waves: We'll explore "transverse waves" (like water ripples, moving up and down) and "longitudinal waves" (like sound, pushing back and

forth).

- How waves behave: You'll learn about important wave features like speed, frequency, and wavelength, and how to draw diagrams of waves.
- About the electromagnetic spectrum: You'll discover that light, radio waves, Xrays, and more are all types of electromagnetic waves, which travel at a very high speed.
- The uses and dangers of different waves: We'll explore how different electromagnetic waves are used (like microwaves for cooking or X-rays for imaging) and what their potential hazards are.

Earth's Resources Core knowledge:

- How we get clean drinking water: You'll discover how water from rivers and the sea is cleaned and made safe to drink using different methods – and What happens to dirty water.
- How we get low grade ores to provide metals: You'll

Exam Preparation



- Describe motion using terms like velocity, acceleration, and terminal velocity.
 Understand how friction, air resistance, and balanced/unbalanced forces affect acceleration.
- Explore stopping
 distances by combining
 thinking and braking
 distances, and
 understand factors
 affecting both. Use
 momentum equations to
 solve collision problems,
 applying the law of
 conservation of
 momentum. Consider
 how braking force and
 deceleration relate to
 safety.

Inheritance, Variation and Evolution Core Knowledge

- Understand the structure of DNA, the role of genes and chromosomes, how genetic information is inherited. Using Punnett squares and family trees to predict outcomes.
- Explore the causes of variation (genetic, environmental, or both), natural selection, selective breeding, and genetic engineering.

- find out about special ways to extract metals, even using plants or bacteria.
- How to check a product's environmental impact:
 We'll learn how to follow a product's "life cycle" from start to finish to see how it affects the Earth.

Electromagnetism Core Knowledge:

- discover that magnets have North and South poles and how they attract or repel each other.
- learn how to draw magnetic field lines around magnets and around wires carrying electricity.
- explore the "motor effect," where a force is produced when a wire carrying current is placed in a magnetic field.



			Ке	spect for Self Respect for Others Respect for Learning
Literary Heritage: A Christ	nas Carol	Revision		
English English the idea of a didactic novel and concepts connected to generosity, greed, family, Concepts redemption, character deviauthorial intent. Revision of language will be	the idea of a didactic novella. They will study a range of themes and concepts connected to 'A Christmas Carol'. These include: generosity, greed, family, Christmas spirit, social responsibility, redemption, character development, setting/atmosphere and authorial intent. Revision of language will be interwoven throughout this unit. Language Paper 1 walkthroughs, model answers and timed		taught units. Teachers will fonguage GCSEs are revised.	ollow a week-by-week overview to ensure all necessary
Elizabethan England: Conflict and Crisis Explore the later challenges of Elizabeth's reign including threats from home and abrost and responses to poverty. Core knowledge (Edexcel Page 2 – Elizabeth): Catholic threats and plots against Elizabeth (e.g. Ridolfi, Throckmorton, Babington) Execution of Mary Queen of Scots Foreign policy and the Spanish Armada Exploration and England's global ambitions Causes of poverty an government response	1960) Understand the background to the Civil Rights Movement and the early efforts to challenge segregation and racism in postwar America. er Core knowledge (Edexcel Paper 3 – Civil Rights): Segregation and Jim Crow laws Brown v. Board of Education and Little Rock The role of the NAACP Montgomery Bus Boycott and Rosa Parks Opposition to progress and White Citizens' Councils Early federal involvement and limitations	Civil Rights in the USA (1960–1975) Explore the development of the Civil Rights Movement, its divisions, and the wider struggle for equality. Core knowledge (Edexcel Paper 3 – Civil Rights): • Martin Luther King and non-violent protest (e.g. Birmingham, Selma, March on Washington) • Civil Rights Act (1964) and Voting Rights Act (1965) • Malcolm X and rise of Black Power • Race riots and urban unrest • Successes and remaining limitations by 1975	The Vietnam War Study US involvement in Vietnam, including causes, tactics, opposition, and eventual withdrawal. Core knowledge (Edexcel Paper 3 – Vietnam): Origins: containment, domino theory, and the Gulf of Tonkin Increasing US involvement under Kennedy and Johnson Guerrilla warfare, the Vietcong, and US military tactics Impact of the media and My Lai Massacre Growing anti-war movement in the USA Nixon, Vietnamisation, and US withdrawal Consequences of the war for the USA and Vietnam	Revision and Exam Technique Focus on refining exam technique, consolidating content knowledge, and boosting student confidence across all papers. Core knowledge and support: Practising all question types across Papers 1, 2, and 3 Recap of key themes and knowledge across topics Structured revision lessons including retrieval practice and exam practice Exam school sessions during exam season



				1101	spect for Sett Respect for Others Respect for Learning
Geography	Urban issues and Challenges Part 1 Understand the causes and consequences of urbanisation, the challenges faced by rapidly growing cities, and the strategies used to manage urban growth sustainably. Core knowledge: - Urbanisation and global patterns - Challenges of urban growth Fieldwork preparation Enable students to collect, analyse, and interpret primary data in real-world environments (human and physical), helping them develop practical geographical skills and a deeper understanding of geographical concepts. Core knowledge: - Planning Data collection	Fieldwork write up Enable students to collect, analyse, and interpret primary data in real-world environments (human and physical), helping them develop practical geographical skills and a deeper understanding of geographical concepts. Core knowledge:	The changing economic world Part 1 Understand the causes and consequences of economic development and disparity, and to explore the processes of development, including globalisation and the role of different economies. Core knowledge: - Development Indicators - Causes of economic inequalities - Strategies to reduce the development gap - The role of TNCs	The changing economic world Part 2 Understand the causes and consequences of economic development and disparity, and to explore the processes of development, including globalisation and the role of different economies. Core knowledge: - Changing industry in the UK	Applying geographical knowledge, critically analyse resources, and make informed decisions about real-world issues from social, economic, and environmental perspectives. Core knowledge: - Issue evaluation - Analysing and interpreting resources Decision making
Ethics and Philosophy	Christian Practices Understanding how Christians put their faith into action in the UK and worldwide Core Knowledge Different forms of worship Prayer Sacraments Pilgrimage	Religion and Life Understanding how both Christians and Buddhists believe life on Earth began. Their attitudes towards value of human and animal life and death Core Knowledge Religious and scientific views on how life began on the planet.	 Understanding of how Buddhists worship and the ethical code by which they live Core Knowledge Meditation Worship Death ceremonies Festivals The five moral precepts The six perfections 		Revision



	Role of Church in the community Healthy Living and Lifestyle	 Use of the planet and resources Use and abuse of animals Abortion Euthanasia Customs, Festivals and	The world of work	Celebrity Culture	Exam skills and Revision	Exam skills and Revision
Languages	 Talking about diet and healthy and unhealthy habits. Core Knowledge Phonics and Reading Aloud practice. Talking about health problems and addictions. Revising radical changing verbs to say if are you fit or not. Talking about what you eat/drink and why. Saying what you are going to do to be healthier. Saying what you have done recently to be healthy. Answering key topic questions for speaking and writing. 	 Celebrations Talking about family and cultural celebrations. Core Knowledge Phonics and Reading Aloud practice. Talking about personal special days and family traditions. Revising all 3 tenses with family celebrations. Celebrations in the French/Spanish speaking world. Using the past tense to describe a recent celebration. Using the imperfect tense to say how you celebrated when you were younger. Answering key topic questions for speaking and writing. 	 Talking about jobs and career plans. Core Knowledge Phonics and Reading Aloud practice. Learning types of jobs and reviewing adjective agreements. Using infinitive structures to talk about jobs we want or not. Understanding people's work experiences. Giving advice about looking for a job. Talking about your idea job using the future and conditional tenses. Answering key topic questions for speaking and writing. 	Talking about famous people and their impact on our lives. Core Knowledge Phonics and Reading Aloud practice. Talking about our favourite celebrities. Comparing past celebrities with current ones. Learning about celebrities from the French/Spanish speaking world. Talking about celebrities being role models. Comparing the positives and negatives of being famous. Saying what you would do if you were famous. Answering key topic questions for speaking and writing.	 Speaking exam practice review of role-play, read aloud and photocard skills. Review of key questions per topic and theme for speaking and writing. Reviewing key listening skills and topic vocabulary. Reviewing key reading skills and topic vocabulary. Reviewing key writing skills. Reviewing key translations skills. 	 Reviewing key listening skills and topic vocabulary. Reviewing key reading skills and topic vocabulary. Reviewing key writing skills. Reviewing key translations skills.



	Component 2	Component 2	Component 3	Component 3	Component 3	
	Learning Outcome B	Learning Outcome C	Evalore the importance of	Investigate different	External exam May	
	Do able to participate in sport	Component 2 PSA	Explore the importance of	Investigate different fitness training methods	Investigate fitness programmi	ng to improve fitness and
	Be able to participate in sport and understand the roles and	Domonstrato ways to improvo	fitness for sports performance	nthess training methods	Investigate fitness programming sports performance	ng to improve fittless and
		Demonstrate ways to improve	Investigate fitness testing to	Cara Knowladge	sports performance	
	responsibilities of officials	participants' sporting techniques.	Investigate fitness testing to determine fitness levels	Core Knowledge	Core Knowledge	
	Core Knowledge	techniques.	determine nuiess ieveis	- Importance of	Core Kilowieuge	
	Core Knowledge	Core Knowledge	Core Knowledge	fitness testing and	- Requirements for fitne	ess training methods
	- Techniques, strategies	core knowledge	core knowledge	requirements for	- Fitness training metho	_
BTEC Sport:	and fitness required	- Planning drills and	- The importance of fitness	administration of		its for each of the fitness
(Core PE see	for different sports	conditioned practices	for successful	each fitness test	training methods	its for each of the fittless
below)	- Officials in sport	to develop participants'	participation in sport	- Fitness test	_	rt in fitness training methods
	- Rules and regulations	sporting skills	- Fitness training principles	methods for		m fitness training on the
	in sports	- Drills to improve	- Exercise intensity and	components of	body systems	
	•	sporting performance	how it can be	physical fitness	- Personal information to	o aid fitness training
			determined	- Fitness test	programme design	ŭ
				methods for	- Fitness programme de	sign
				components of	- Motivational technique	es for fitness programming
				skill-related fitness		
				 Interpretation of 		
				fitness test results		
	Theme:	Theme:	Theme:	Theme:	Theme:	Exam Leave - Art Course
	6 6 . 1 1					
	Project 2 - Individual students	Project 2, - Continuation of	Project 3 - Externally Set	Project 3 - Continuation	Project 3 - Continuation.	finished.
	projects based on a theme,	individual themes. Focus on	Project 3 - Externally Set Assignment. Individual theme	Project 3 - Continuation of individual project.	Project 3 - Continuation. Focus on development of	
	projects based on a theme, chosen from a previous	individual themes. Focus on developing final ideas. Final	Project 3 - Externally Set Assignment. Individual theme chosen from the exam paper.	Project 3 - Continuation of individual project. Focus this term is on the	Project 3 - Continuation. Focus on development of final piece and preparation	
	projects based on a theme, chosen from a previous examination paper and	individual themes. Focus on developing final ideas. Final idea will be started in PPE	Project 3 - Externally Set Assignment. Individual theme chosen from the exam paper. Paper arrives at the start of	Project 3 - Continuation of individual project. Focus this term is on the development of ideas,	Project 3 - Continuation. Focus on development of final piece and preparation for the creation of the final	
	projects based on a theme, chosen from a previous examination paper and started in Year 10.	individual themes. Focus on developing final ideas. Final idea will be started in PPE exam and completed in	Project 3 - Externally Set Assignment. Individual theme chosen from the exam paper. Paper arrives at the start of January. Students will pick a	Project 3 - Continuation of individual project. Focus this term is on the development of ideas, applying what is learnt	Project 3 - Continuation. Focus on development of final piece and preparation	
	projects based on a theme, chosen from a previous examination paper and started in Year 10. The focus this term is to	individual themes. Focus on developing final ideas. Final idea will be started in PPE exam and completed in following lessons. Sketchbook	Project 3 - Externally Set Assignment. Individual theme chosen from the exam paper. Paper arrives at the start of January. Students will pick a theme and select a starting point	Project 3 - Continuation of individual project. Focus this term is on the development of ideas, applying what is learnt from artist analysis and	Project 3 - Continuation. Focus on development of final piece and preparation for the creation of the final piece in 10 hour exam.	
	projects based on a theme, chosen from a previous examination paper and started in Year 10. The focus this term is to develop their ideas further	individual themes. Focus on developing final ideas. Final idea will be started in PPE exam and completed in following lessons. Sketchbook presentation finalised.	Project 3 - Externally Set Assignment. Individual theme chosen from the exam paper. Paper arrives at the start of January. Students will pick a theme and select a starting point to explore through drawing,	Project 3 - Continuation of individual project. Focus this term is on the development of ideas, applying what is learnt from artist analysis and media and technique	Project 3 - Continuation. Focus on development of final piece and preparation for the creation of the final piece in 10 hour exam. Artist Link: The influence of	
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	Core Knowledge: Exploration and refinement of media and techniques. Reflect on their intentions	compositions. Emphasis on expert drawing, media technique refinement, time management and planning and making of final piece. Media and techniques; All media available.	Core Knowledge: Observational drawing from life or relevant imagery linked to the chosen theme, focusing on proportion, visual elements and appropriate mark-making. Analysis of artists or cultural artwork and applying learning to the students own development of ideas. Media and techniques; All media available.	refine ideas toward a conclusion through a continuous process of observational drawing, artist analysis, and media exploration. Creating a cohesive and purposeful body of work. Development of final idea. Media and techniques; All media available.	drawing and refined media techniques. Effective time management and planning in preparation for the final exam. Media and techniques; All media Available.	
Dance	Component 2 - Developing skills performing arts Students study a piece of profes own dance skills and set themse At the end of the process they w Core knowledge Technical and expressive Skills audit Characteristics of style/g Professional behaviours Preparing for performan Developing and applying	ssional repertoire, assess their elves targets for improvement. write an evaluation e dance skills genre ce g skills ning, intentions and links to a	Component 3 - Responding to a be Learners collaborate in groups to a workshop piece in response to a gray This process involves applying the dance to develop a performance to requirements. The assessment emitten within a performance context. Core knowledge Choreography Performance Analysis of professional works and developing so selecting and developing so Applying skills and technique performance Evaluating the development process.	create and perform a liven brief and stimulus. It knowledge and skills in hat meets the brief's aphasizes creativity, pret and respond to stimuli orks/choreographers kills in response to a brief ues in a workshop	Rev	ision
Drama	Single lessons: Component 3 - 1 performance of 2 extracts from designer or performer. Core Knowledge: • Work collaboratively to general ideas	a published play as either a	response to a brief Part 1: Final Rehearsals and Performance - End of January External Exam Core Knowledge: • Work collaboratively to generate communicate ideas • Develop a range of theatrical sking create performance as a performed	e, develop and	Revision: Part 1: Revision of Sin 80 Days by Jules Verne and on Professional roles in theat Core Knowledge: • Explore performance texts, cultural and historical context conventions of the period in wear Apply practical ideas in a wear and some serior of the period in wear and some serior of the p	d Multiple choice questions tre and theatre spaces. understanding their social, including the theatrical which they were created



			pect for Sett Nespect for Others Nespect for Learning
	Develop a range of theatrical skills and apply them to create	 Ability to set aims and intentions 	
	performance as a performer or designer	,	Part 2: Revision of: Theatre Review - analysis of live
	performance as a performer or designer	Part 2: Revision of: Theatre Review - analysis of live theatre	theatre preparation for written exam.
	Ability to set aims and intentions	preparation for written exam.	
			Core Knowledge:
	Double lessons: Revision of Set Text - Around the World in 80	Core Knowledge:	
	Days by Jules Verne		Knowledge of Drama and theatre
		Knowledge of Drama and Theatre	Analysis and Evaluation of the work of live theatre
	Core Knowledge:	 Analysis and evaluation of the work of live theatre makers 	makers
		·	Develop an awareness and understanding of the roles
	 Explore performance texts, understanding their social, 		and processes undertaken in contemporary professional
	cultural and historical context including the theatrical		theatre practice
	conventions of the period in which they were created		
	,		
	 Apply practical ideas in a written context 		
	<u>Double Lessons</u>	Aos 3,4 & 2 Revision	Examination preparation
	Exam Brief Composition		
		Revisit Fusions (AoS3) leitmotif and thematic transformation	Revision activities based on the 4 AoS, including the set
	Complete exam brief composition	(AoS4) Textural developments (AoS3)	works 'Badinerie' and 'Africa'.
	Core Knowledge	Core Knowledge	Core Knowledge
	Draw on compositional techniques used in AoS 1-4.	Develop exam technique. Extended answers (Film music) and	Understand key contextual knowledge of all 4 AoS.
		hints and tips for answering set work and general listening	
	Can organise and develop ideas showing creativity and	questions.	Can identify the use of the elements of music in known
	sophistication.	Coursework Mop-Up	and unknown pieces, and describe what is happening
			using specific musical vocabulary.
	Demonstrate solid use and understanding of the elements of	completion of all coursework tasks.	
Music	music.		Can accurately complete melodic and rhythmic dictation
	Single Lessons	Core Knowledge:	exercises. Can recognise cadences and intervals.
	AoS 1 and 4 : Revision		
	Revisit AoS1 : Musical form and Structure. Developing an	Understand marking criteria for performance and	Develop examination technique.
	understanding of extended structure techniques and	composition to maximise coursework outcomes.	
	associated terminology.		
	E de la Acada E de la Albana El de la Companya de l	Coursework / Examination	
	Explore Aos 4 - Fusions/Bhangra - Electronic music, use of	Fire Drief commercials and the desired	
	technology and strophic structures	Exam Brief composition completed.	
	Core Krondodeo	Performance 2 completed.	
	Core Knowledge:	Further develop exam technique.	
	Deinferse understandis = of Develope Classical and Develope	Completion of Scores and Logs.	
	Reinforce understanding of Baroque, Classical and Romantic		
	period musical features.		



Respect for Self | Respect for Others | Respect for Learning

Film	films that students have historically enjoyed. The exam will ask about each film separately, before bringing them together, encouraging students to compare how the same themes are treated differently across eras. Key Knowledge: Genre Narrative Context		Term 3 - Ladybird & Specialist Writing The final study film is assessed differently to all of the previous set texts, with students expected to respond to a piece of specialist writing that they have studied in lesson time. There is a choice of specialist writing texts, with one specific to each film, and one generic piece that refers to independent films generally. Key knowledge: Critical & evaluative writing Adaptation of ideas	Term 4 - Coursework, film history & revision We begin our preparation for both the final exams, and the submission of the NEA element of the course. We also cover our final unit, Film History. Key knowledge: Revision skills Film History Screenwriting & evaluative skills	Term 5 - Revision The aim of the final term is to ensure students are prepared for their exam. This refers to both knowing the content of the course and ensuring that their exam technique is polished and perfected before the start of the formal exam season. Key knowledge: Revision skills
Computer Science	Key topics Theory content:	Key topics Theory content:	Key topics Theory content:	Issues and impact:	Exam preparation - key skills (paper 1) Exam preparation - practical programming (paper 2)



protocols (POP3,	Methods of
SMTP, IMAP)	intellectual
How the 4-layer	property
(application,	protection for
transport, internet,	computer systems
link) TCP/IP model	and software
handles data	Threats to digital
transmission over a	systems posed by
network	malware
Characteristics of	methods of
network topologies	protecting digital
(bus, star, mesh)	systems and data

Science Triple Award Curriculum

Science Discipline	Term One	Term Two	Term Three - Six
Physics	 Core Knowledge: Different types of waves: We'll explore "transverse waves" (like water ripples, moving up and down) and "longitudinal waves" (like sound, pushing back and forth). How waves behave: You'll learn about important wave features like speed, frequency, and wavelength, and how to draw diagrams of waves. About the electromagnetic spectrum: You'll discover that light, radio waves, X- rays, and more are all types of electromagnetic waves, which travel at a very high speed. 	 Core Knowledge: discover that magnets have North and South poles and how they attract or repel each other. learn how to draw magnetic field lines around magnets and around wires carrying electricity. explore the "motor effect," where a force is produced when a wire carrying current is placed in a magnetic field. Learn that generators use the generator effect—where movement through a magnetic field induces a current—to produce electricity. This principle is applied in alternators (AC) and dynamos (DC). Space Core Knowledge: 	Revision



	We'll explore how different electromagnetic waves are used (like microwaves for cooking or X-rays for imaging) and what their potential hazards are. Light Core Knowledge: understand that visible light is a small part of the electromagnetic spectrum and how different objects reflect or absorb light to show colors. explore reflection (light bouncing off surfaces) and refraction (light bending when it goes from one material to another). learn about concave and convex lenses and how they form images, which is key to understanding eyeglasses and cameras.	 planets, and other celestial bodies, and how gravity holds them together. explore the life cycle of stars, from their formation in nebulas to their eventual death as white dwarfs or supernovae. learn about "red-shift," which tells us that other galaxies are moving away from us, suggesting the universe is constantly expanding. 	
Biology	 Inheritance, Variation and Evolution Core Knowledge Understand the structure of DNA, the role of genes and chromosomes, how genetic information is inherited. Using Punnett squares and family trees to predict outcomes. Explore the causes of variation (genetic, environmental, or both), natural selection, selective breeding, and genetic engineering. Learn about fossils, the process of fossil formation and extinction. 	 Core Knowledge Understand how organisms adapt to their environments and compete for limited resources. Learn about interdependence within ecosystems, including food chains/webs, abiotic and biotic factors, and the importance of stable communities. Study the importance of biodiversity and how human activities like deforestation, pollution, and global warming affect ecosystems. Examine the cycling of materials through the carbon and water cycles, the structure and function of decomposers, and the efficiency of biomass transfer. Learn how food production is influenced. 	Revision



Rate and Extent of Chemical Reactions	Earth's Atmosphere	Using Resources	Terms 4 – 6
Core Knowledge:	Core Knowledge	Core Knowledge	
 Measuring reaction rates through changes in mass or volume; understanding how to interpret and calculate rates from graphs. Describing how temperature, concentration, surface area, and catalysts influence the rate of a chemical reaction based on collision theory. Understanding dynamic equilibrium, Le Châtelier's principle, and how changing conditions like temperature, concentration, and pressure affect the position of equilibrium. 	 How our early Earth's air was different: It had lots of carbon dioxide and not much oxygen, unlike today. Why the air changed: Over time, carbon dioxide decreased because oceans soaked it up and plants used it to grow. How humans are changing the air now: Burning fuels and cutting down trees release gases that warm the planet and cause climate change, leading to things like rising sea levels. Earth's Resources Core knowledge: How we get clean drinking water: You'll discover how water from rivers and the sea is cleaned and made safe to drink using different methods – and What happens to dirty water. How we get low grade ores to provide metals: You'll find out about special ways to extract metals, even using plants or bacteria. How to check a product's environmental impact: We'll learn how to follow a product's "life cycle" from start to finish to see how it affects the Earth. 	 About using metals: We'll understand what causes metals to corrode and how we can protect them, and how combining different metals (called alloys) creates new materials with improved properties, like stronger steel. What plastics are and how they're made: We'll explore different types of plastics and how they behave, like those that can be reshaped when heated and those that can't. How we make ammonia for fertilizers: You'll understand the special process (Haber process) that creates ammonia, which is important for growing crops. How fertilizers help plants grow: We'll learn about the ingredients in fertilizers (NPK) and how they boost plant growth. 	Revision



Year 11: Design Technology Curriculum

				nd will study these for the		
Timbers	3DD – Component 1: Portfolio (60%) Advanced design development using the results of their mock examination to guide further creative alterations Core Knowledge Development Modelling Development Experimentation Card / Foam / Timber mock-ups	Component 1: Portfolio Preparation for Nov / Dec PPE Planning manufacture – cutting list, production plan, technical drawings 10 Hr mock examination (PPE) to start manufacture of their final practical element Core Knowledge Range of techniques needed for manufacture of their final practical piece	 3DD – Component 2: ESA Introduction to Component 2: ESA (40%) Choosing Component 2 theme Initial research into the theme and linked artists or designers Initial design ideas Detailed design development Card / foam 3D prototyping Core Knowledge Analysis of Task Moodboard Designer / Artist / Culture Inspiration page Existing product analysis Initial design sketches Isometric / 2pt perspective detailed designs 	 3DD – Component 2: ESA Experimentation with Materials, Techniques and Proccesses Planning for ESA 10Hr examination Cutting list, Production plan, Technical drawings Preparing formers, laser etching or laser cut components Core Knowledge Range of techniques used for experimentation of timbers products to improve both functional or aesthetic properties. 	Component 2: ESA ESA examination – 40% Manufacture of final 3D outcome for the ESA theme chosen in January Core Knowledge Range of techniques needed for manufacture of their final practical piece	Exam Preparation
Graphic Design	Non Exam Assessment: • Annotate design ideas • Review of initial ideas • Development plan Developing techniques for manufacture	Non Exam Assessment: • Manufacturing specification • Working drawing • Review of final design Begin manufacture	 3D solid modelling Non Exam Assessment: Manufacture Manufacture diary Testing and evaluating 	Theory: • PPE Revision Core revision	Theory: • Specialist Paper & Board revision Core revision	Exam Preparation



Textiles	Non Exam Assessment:	Non Exam Assessment:	Non Exam Assessment:	Theory: PPE Revision Core revision	 Specialist Textiles revision Core revision 	Exam Preparation
Food and Nutrition	NEA 1 Food investigation (30 marks)	Food preparation assessment (70 marks) Knowledge, skills and understanding in relation to the planning, preparation, cooking, presentation of food and application of nutrition related to the chosen task.	Food preparation assessment (70 marks) Students will prepare, cook and present a final menu of three dishes within a single period of no more than three hours, planning in advance how this will be achieved.	NEA 2 Food preparation assessment (70 marks) •	Exam revision 1. Food, nutrition and health 2. Food science 3. Food safety 4. Food choice 5.Food provenance	• Written exam: 1 hour 45 minutes • 100 marks • 50% of GCSE Questions • Multiple choice questions (20 marks) • Five questions each with a number of sub questions (80 marks) 1. Food, nutrition and health 2. Food science 3. Food safety 4. Food choice 5.Food provenance



Core PE Curriculum: Y10 and Y11

Year 10/11 Subjects	Highly Competitive	Competitive Group	Active Skills and Games	Fitness for Life	Recreational Movement
	Group		Group	Group	Group
	Core Knowledge	Core Knowledge	Core Knowledge	Core Knowledge	Core Knowledge
Core PE	Performance Excellence Execute advanced sport-specific skills with precision, consistency, and under pressure in competitive scenarios. Elite Tactical Understanding Apply complex strategies and adapt game plans in response to opponents. Physical Conditioning and Preparation Understand and implement structured training methods Leadership, Analysis, and Communication Lead warm-ups, team discussions, and give tactical feedback Professional Standards and Mindset Show resilience, discipline, and commitment to high performance; set ambitious goals and take responsibility for continuous improvement.	High-Level Skill Application Perform advanced technical skills with accuracy, control, and decision-making under game pressure across multiple sports. Tactical Awareness and Game Intelligence Apply and adapt in-depth tactical strategies (e.g. formations, set plays, transitional play) based on game context and opponent behaviour. Physical Fitness and Conditioning Understand and apply components of fitness relevant to performance (e.g. agility, strength, aerobic capacity); engage in sport-specific conditioning. Leadership and Team Roles Take on leadership roles such as captain, coach, or official; organise and influence team structure, motivation, and performance. Evaluation and Performance Analysis Use feedback, video analysis, and performance data to assess strengths and weaknesses; set and work towards SMART performance goals.	Lifelong Physical Activity Understand the importance of regular physical activity for physical, mental, and social health beyond school. Enjoyment Through Variety Engage in a range of accessible and enjoyable activities (e.g. fitness classes, walking, social sports, yoga, dance) to discover personal interests. Basic Fitness and Wellbeing Principles Learn how to maintain fitness through accessible exercise (e.g. FITT principle, heart rate zones, stretching techniques). Safe Participation and Self-Management Follow safety guidelines, warm-up and cool down independently, and manage personal effort and activity level responsibly. Personal Goal Setting and Motivation Set realistic, personal fitness or wellbeing goals; reflect on progress to stay motivated and active in daily life.	Health and Wellbeing Awareness Understand how regular physical activity supports physical, mental, and emotional health across life stages. Enjoyment and Participation Engage positively in a variety of inclusive, low-pressure activities (e.g. walking, fitness circuits, recreational games, dance). Basic Fitness Understanding Learn simple fitness concepts (e.g. warming up, stretching, hydration, aerobic vs anaerobic activity) for safe participation. Confidence and Independence Develop confidence to take part in physical activity independently outside of school (e.g. gym sessions, park runs, home workouts). Personal Responsibility and Goal Setting Set achievable activity goals based on individual needs and preferences; reflect on progress and make healthy lifestyle choices.	Lifelong Physical Activity Understand how recreational activity supports long-term health, wellbeing, and quality of life. Participation Over Performance Value enjoyment, social interaction, and personal effort rather than competition or elite skill. Variety and Inclusivity Take part in a broad range of accessible and enjoyable activities (e.g. team games, walking, yoga, fitness classes, net games). Health and Safety Awareness Know how to warm up, cool down, and participate safely and responsibly in all forms of physical activity. Personal Motivation and Routine Develop confidence, set personal goals, and build habits that encourage continued activity beyond school.