

The Year 11 Art, Craft, and Design curriculum offers a transformative artistic journey that fosters creative autonomy and a deep appreciation for art. Our goal is to empower students to embark on independent projects using prompts from past AQA Art exam papers, preparing them for the actual exam paper release in January. This process aligns with the four assessment objectives set by the exam board.

Students will enhance their observational drawing skills, learning to perceive and document their surroundings effectively. Critical annotations will accompany their drawings, promoting reflection and improving their ability to communicate ideas visually and verbally. The curriculum encourages exploration of established artists' influences, enabling students to analyse and respond to artistic traditions and contemporary voices, thus enriching their artistic vocabulary and contextual understanding.

Through experimentation with various media, students will expand their artistic horizons, learning to manipulate materials and understand their potential and limitations. This equips them with a versatile toolkit to express their creative vision. As they refine their ideas and develop outcomes, students will focus on transforming inspiration and experimentation into cohesive, engaging art pieces, mastering the journey from concept to final presentation.

Assessment Objective 1 (AO1): Develop ideas through investigations, demonstrating critical understanding of sources.

- Students are expected to gather and explore a wide range of sources of inspiration, such as direct observation, secondary research, and personal experiences.
- They should demonstrate a critical understanding of their chosen sources, analysing and evaluating their relevance to the project.
- This AO assesses the ability to generate ideas and develop concepts through comprehensive investigations and research.

Assessment Objective 2 (AO2): Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques, and processes.

 Students need to experiment with different media, materials, techniques, and processes relevant to their chosen theme or project.

- They should show evidence of refining and improving their work through experimentation, adapting their approaches to achieve desired outcomes.
- This AO assesses the ability to creatively manipulate materials and techniques to develop the artwork.

Assessment Objective 3 (AO3): Record ideas, observations, and insights relevant to intentions, reflecting critically on work and progress.

- Students are required to keep a sketchbook or portfolio that records their ideas, observations, and insights.
- They should demonstrate an ongoing process of reflection and critical analysis, evaluating their work's strengths and weaknesses.
- This AO evaluates the ability to maintain a consistent and reflective record of their artistic journey.

Assessment Objective 4 (AO4): Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.

- Students need to produce a final, personal, and meaningful response to their chosen project, demonstrating their understanding of the visual language and its effective use.
- The response should reflect their creative intentions and encompass the knowledge and skills gained throughout the project.
- This AO assesses the ability to produce a finished piece that communicates artistic intent effectively.

These four Assessment Objectives guide the evaluation of students' coursework and examinations in the AQA Art, Craft, and Design GCSE. They are designed to assess not only the final outcomes but also the entire creative process, from initial investigations to the presentation of a personal and meaningful response. The Year 11 curriculum is guided by these objectives, not as mere assessment requirements but as essential elements of artistic growth and expression. Our intention is to foster a love for art that extends beyond the classroom, to equip our students with the skills and perspectives necessary for artistic independence, and to prepare them for the challenges and opportunities that lie ahead on their artistic journeys. Through this curriculum, our students will not only create artworks of depth and meaning but also develop into artists capable of making significant contributions to the creative world.

Why I study Art?

I study Art because:

- It helps me find meaning in the world.
 - It helps me express my identity.
- It helps me explore culture and ideologies.

Cultural capital/enrichment

Completing the AQA Art, Craft, and Design GCSE provides Year 11 students with significant cultural capital, encompassing the knowledge, skills, and experiences gained through artistic education. This cultural capital aids students in navigating the art world, appreciating diverse perspectives, and supporting their personal and professional growth.

Through coursework, students explore various art forms, media, and techniques, enhancing their ability to understand and appreciate art across different cultures and time periods. They learn about the historical contexts of art movements and artists, enabling them to contextualise and interpret artworks while recognising the influences that shape them.

The curriculum promotes critical thinking and analysis of both their work and that of others, fostering a deeper understanding of the world. Exposure to diverse artistic styles broadens cultural awareness and appreciation for diversity. Independent art projects cultivate research and self-directed learning skills applicable to academic and lifelong pursuits.

Students also develop the ability to express artistic ideas, valuable across fields like visual communication and marketing. They create a portfolio of their work, which can support applications to art schools or further education in the arts. Additionally, showcasing their work in exhibitions enhances public speaking and presentation skills.

Through their study of art, students engage in cultural conversations, fostering a lifelong appreciation for the arts. By completing their GCSE, they gain artistic skills and cultural capital that enrich their personal and professional journeys, equipping them to meaningfully engage with the world of art and culture.

Half term	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
				(Summative and formative) Key
				pieces

Artist influence, experimentation and development of ideas	Students are given the choice of which project they would like to begin at the end of year 10 based on a past AQA paper. They will produce work for this project up until January when they receive their live AQA exam paper. Students will produce a mind map and mood board, write a proposal, develop a plan, find their own artists, analyse their work and record from observation. Once they have primary images they will use these to develop ideas and take these forward to a final outcome. The majority of the work will be produced in a sketchbook. Written work and annotations will ensure all their thoughts and observations are recorded.	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 14. 15. 16. 17.	 Observational Drawing: Developing the ability to create accurate and detailed observational drawings. Research Skills: Learning to gather, analyse, and apply information from various sources. Critical Analysis: Developing a critical eye to assess and interpret artworks and artistic concepts. Cultural Awareness: Gaining an understanding of art history, cultural influences, and contemporary art movements. Ideation and Concept Development: Generating and refining ideas for their creative projects. Annotation and Documentation: Effectively recording thoughts, processes, and critical reflections in sketchbooks or portfolios. Media Handling: Mastery of various art materials, techniques to achieve desired artistic outcomes. Mixed Media Exploration: Experimenting with the combination of different media and materials. Sculptural Skills: Developing skills in threedimensional art, including working with different materials and tools. Printmaking Skills: Proficiency in various printmaking techniques, such as etching, lino printing, or screen printing. Digital Art Proficiency: Utilizing digital tools and software for artistic expression. Conceptual Thinking: Cultivating the ability to translate ideas into meaningful and engaging artwork. Composition and Design: Understanding principles of composition, layout, balance, and visual hierarchy. Conceptual Development: Progressing from initial ideas to final, well-developed concepts. Artistic Problem-Solving: Effectively addressing challenges and making creative decisions. Personal Voice: Developing a distinctive artistic style and self-expression. 	 Artist 1 response A01 Development piece Key writing pieces such as artist analysis will be marked for accuracy, complexity of thought and SPAG.

18 Final Outcome Creation: Producing refined and
in a sector of the later of the sector of th
weil-crafted final pieces of artwork.
19. Presentation Skills: Learning to present and
display artwork effectively.
20. Portfolio Development: Building a
comprehensive and cohesive portfolio that
showcases their range and skills.
21. Artistic Critique: Providing constructive feedback
and critique on their work and the work of peers.
22. Self-Evaluation: Reflecting on their own artistic
growth, strengths, and areas for improvement.
23. Response to External Influences: Demonstrating
how external influences, such as other artists or
cultural contexts, have informed their work.
These skills are integral to a comprehensive art education
and are key to success in the AQA Art, Craft, and Design
GCSE. They equip students not only with artistic
proficiency but also with the ability to think critically work
independently, and engage with the userial of fict and
independently, and engage with the world of art and
design in a meaningful way.

Students are given their exam project questions	7. Observational Drawing : Developing the	Holistic marking throughout the
Students are given their exam project questions paper in January. This is independent and controlled assessment work. They need to work to their strengths to develop a full project covering all 4 Assessment objectives as listed in the curriculum intent. They will write a proposal, develop a plan, find their own artists, analyse their work and record from observation. Once they have primary images they will use these to develop ideas and take forward to a final outcome. The majority of the work will be produced in a sketchbook with the exception being the work completed in their 10 hour timed examination. Written work and annotations will ensure all their thoughts and observations are recorded.	 Observational Drawing: Developing the ability to create accurate and detailed observational drawings. Research Skills: Learning to gather, analyse, and apply information from various sources. Critical Analysis: Developing a critical eye to assess and interpret artworks and artistic concepts. Cultural Awareness: Gaining an understanding of art history, cultural influences, and contemporary art movements. Ideation and Concept Development: Generating and refining ideas for their creative projects. Annotation and Documentation: Effectively recording thoughts, processes, and critical reflections in sketchbooks or portfolios. Media Handling: Mastery of various art materials, techniques, and media. Technique Adaptation: The ability to adapt techniques to achieve desired 	Holistic marking throughout the project via one to one sessions and continuous assessment and monitoring sheets. Key writing pieces such as artist analysis will be marked for accuracy, complexity of thought and SPAG.
develop ideas and take forward to a final outcome. The majority of the work will be produced in a sketchbook with the exception	artistic concepts. 10. Cultural Awareness : Gaining an understanding of art history, cultural	and SPAG.
examination. Written work and annotations will ensure all their thoughts and observations are recorded.	movements. 11. Ideation and Concept Development:	
	Generating and refining ideas for their creative projects. 12. Annotation and Documentation:	
	Effectively recording thoughts, processes, and critical reflections in sketchbooks or portfolios.	
	 Media Handling: Mastery of various art materials, techniques, and media. 	
	 14. Technique Adaptation: The ability to adapt techniques to achieve desired artistic outcomes. 	
<u> </u>	15. Mixed Media Exploration : Experimenting with the combination of different media	
א pape	and materials. 16. Sculptural Skills : Developing skills in three-dimensional art. including working	
et Exar	with different materials and tools. 17. Printmaking Skills : Proficiency in various	
AQA s	printmaking techniques, such as etching, lino printing, or screen printing.	

SPRING

18. Digital Art Proficiency: Utilizing digital	
tools and software for artistic expression.	
18. Conceptual Thinking: Cultivating the	
ability to translate ideas into meaningful	
and engaging artwork.	
19. Composition and Design: Understanding	
principles of composition, layout,	
balance, and visual hierarchy.	
20. Conceptual Development: Progressing	
from initial ideas to final, well-developed	
concepts.	
21. Artistic Problem-Solving: Effectively	
addressing challenges and making	
creative decisions.	
22. Personal Voice: Developing a distinctive	
artistic style and self-expression.	
21. Final Outcome Creation: Producing	
refined and well-crafted final pieces of	
artwork.	
22. Presentation Skills: Learning to present	
and display artwork effectively.	
23. Portfolio Development: Building a	
comprehensive and cohesive portfolio	
that showcases their range and skills.	
24. Artistic Critique: Providing constructive	
feedback and critique on their work and	
the work of peers.	
25. Self-Evaluation: Reflecting on their own	
artistic growth, strengths, and areas for	
improvement.	
26. Response to External Influences:	
Demonstrating how external influences,	
such as other artists or cultural contexts,	
have informed their work.	

and engage with the world of art and design in a meaningful way.		These skills are integral to a comprehensive art education and are key to success in the AQA Art, Craft, and Design GCSE. They equip students not only with artistic proficiency but also with the ability to think critically, work independently, and engage with the world of art and design in a meaningful way.	
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10 hour art Exam and cease of Art GCSE	Students undertake their final 10-hour exam, which is produced over a number of sessions under exam conditions, this will take place in the art rooms. They will be given their exam sketchbook prep work each session to be able to use as inspiration. This will be locked away after each session in a secure area. Their final piece will have been drafted and refined many times before the penultimate exam so students are well prepared. Students will not be permitted to add work to their portfolio once the 10 hour timed session has begun. Once the 10 hour examination is complete, students have finished the Art, Craft and Design GCSE and should feel extremely proud of themselves.	 When preparing for the 10-hour final examination in the AQA Art, Craft, and Design GCSE, Year 11 students can gain a specific set of skills that are crucial for successfully completing this high-stakes assessment. These skills are a culmination of what they've learned throughout their chosen projects and coursework. Here are the key skills they can acquire: 1. Time Management: Learning to manage time effectively within the 10-hour examination period to ensure that they can complete their work on time. 2. Stress Management: Developing the ability to work under pressure and handle the stress associated with a time-limited examination. 3. Conceptualization: Applying the skills gained during project work to formulate and refine a clear concept or idea for their final outcome. 4. Material Selection: Choosing appropriate materials and media based on the project's requirements and their understanding of the medium's properties. 5. Technical Proficiency: Demonstrating mastery of various art techniques, both traditional and digital, as required for their chosen project. 6. Problem-Solving: Adapting to unexpected challenges or problems that may arise during the examination and finding creative solutions. 7. Focus and Concentration: Maintaining focus on the task at hand and concentrating on the creative process despite time constraints and examination conditions. 8. Decision-Making: Making critical artistic decisions regarding composition, colour, and form to achieve the desired outcome. 9. Adaptability: Being flexible in their approach and open to making changes if the initial concept isn't working as intended. 10. Critical Evaluation: Continuously assessing their work throughout the 10 hours, identifying areas that need improvement or adjustment. 11. Precision and Attention to Detail: Ensuring precision and a keen attention to detail in their final piece to create a polished and professional	Worked will be marked by Art teacher as follows: Component 1 (Year 10 natural forms project and Year 11 past paper project) = 60% of overall marks Component 2 (Exam board set paper released in January of year 11 + 10 hour exam) =40% of overall marks A sample of the work from the cohort is sent to another school to be standardised. A moderator working for AQA will then come into school to ensure consistent marking.

SUMMER

	 12. Creativity and Originality: Applying creative thinking to make their final piece unique and reflective of their personal artistic style. 13. Documentation: Keeping clear records and annotations about their process during the examination, which can be used to support their evaluation and reflection. 14. Confidence and Self-Assurance: Trusting their artistic skills and their ability to produce a high-quality outcome within the time constraints. 15. Presentation Skills: Preparing and presenting the final outcome for assessment, ensuring it is well-presented and effectively displayed. These skills are not only critical for success in the 10-hour examination but also transferable to other aspects of life, such as problem-solving, decision-making, and time management. Completing this examination is a significant achievement, and the skills gained during this process contribute to the students' artistic growth and development. 	
	development.	



The intent of our Computer Science at GCSE is to equip students with the fundamental knowledge and skills in understanding, creating, and applying computer programs. This curriculum emphasizes problem-solving, algorithmic thinking, and computational logic whilst enhancing and perfecting their programming skills. The subject aims to cultivate a deep understanding of computing concepts, preparing students for an increasingly digital future. It provides a foundation for higher-level studies and fosters analytical thinking essential in various careers. The course empowers students to become not just users but creators of technology, promoting innovation and adaptability in an evolving technological landscape.

Why I study Computer Science?

Pupils are encouraged to challenge themselves by demonstrating an array of different computing competencies. Our KS3 curriculum reflects the required skills and techniques students need to be confident and independent in a range of Computing skillsets. In school we present and allow opportunities for enrichment such as promoting Computing for girls, code clubs and trips to workplace visits. By the end of KS4 the students will have the skillset and tools to tackle the ever-changing digital landscape. I learn Computer Science because:

- It allows me to be a critical and lateral thinker.
- It develops my computational thinking and problem-solving skills.
- It increases my digital skills needed for any career path.

Cultural capital/enrichment

Half	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment
term				opportunities

				(Summative and formative) Key pieces
Aut 1&2	Architecture of the CPU	The purpose of the CPU, Common CPU components and Vonn Neuman Architecture.	Learn what actions occur at each stage of the fetch-execute cycle Able to understand and explain the role/purpose of each component and what it manages, stores, or controls during the fetch- execute cycle. The purpose of each register, what it stores (data or address) The difference between storing data and an address	assessment opportunities are provided through hands down questioning, discussions, brain storming, spider diagrams, quizzes, verbal feedback, self and peer assessment
	CPU performance	How common characteristics of CPUs affect their performance:	Learn and understand the roles of the following: • Clock speed • Cache size • Number of cores	Throughout the year, students will complete exam style questions relating to topics gone over in class.
	Embedded Systems	The purpose and characteristics of Embedded Systems	And how they can affect performance, individually or as a combination Be able to give examples of devices which have Embedded Systems and explain the job that they do.	Students will also do a test at the end of a topic which will review everything we have done up until that point.

Primary Storage	Explain why computers have primary storage and how this usually consists of RAM and ROM Key characteristics of RAM and ROM Why virtual memory may be needed in a system How virtual memory works	Be able to explain and describe why Primary storage is important/needed whilst identifying key differences between RAM and ROM, examining the different characteristics of both.	Throughout KS4 students will also sit Mock Exams in line with the Exam Timetable which will be as close to a real
Secondary Storage	The need for secondary storage, and the common types of Secondary storage	Demonstrate an understanding of why computers have secondary storage and the ability to give examples of types of Secondary Storage.	exam as possible giving students a taste of what the real thing would be.
	The advantages and disadvantages of different storage devices and storage media relating to these characteristics	Recognise the differences between storage devices and mediums, whilst explaining the advantages and disadvantages of each (Optical, Magnetic, Solid State) Be able to apply the above knowledge to different scenarios and suggest the most suitable tochnology for different tacks	
Units of storage	The different units of Data	Familiarity with data units and learn how to move between each: 1. Bit 2. Nibble (4 bits) 3. Byte (8 bits) 4. Kilobyte (1,000 bytes or 1 KB)	
		 Megabyte (1,000 KB) Gigabyte (1,000 MB) Terabyte (1,000 GB) Petabyte (1,000 TB) 	

	How data needs to be converted into a binary format to be processed by a computer	Learn why data needs to be stored in Binary format and why computers use this method	
	Data capacity and calculation of data capacity requirements	Calculate file sizes of sound, images and text files sound file size = sample rate x duration (s) x bit depth image file size = colour depth x image height (px) x image width (px)	
		text file size = bits per character x number of characters	
Data Storage	How to convert between denary numbers to binary numbers (Vice Versa)	Understanding the Denary number range 0- 255	
-	Binary Addition	Learn how to add two 8-bit binary numbers together whilst being able to explain what overflows are	
	Hexadecimal conversions to binary and denary (Vice Versa)	Understand and demonstrate the hexadecimal range 00-FF and be able to convert from either	
	Binary Shift	Understand the effect of a binary shift (both left or right) on a binary number whilst being able to demonstrate how these look/work (both left and right)	

			Understand how an image is represented by a	
			series of pixels represented in Binary	
		Images	Understand Metadata and the affect colour	
			depth and resolution has on the quality of the	
			image and the size of the file.	
			Understand and show how analogue sound is	
			converted into a digital format and how the	
		Sound	sample rate affects the quality and size of the	
			file.	
			Learn how compressing a file can affect the	
			quality and size of a file depending on the style	
			of compression used (Lossy/Lossless)	
		Compression		
			Identify and explain the differences between a	
			LAN & WAN Demonstrate and explain the different factors	
		Types of networks	that can affect the performance of a network	
		Factors that can affect the performance of a	(E.g. Bandwidth, number of devices)	
		network		
			Learn and explain the tasks/jobs performed by	
	Networks		the following pieces of Hardware:	
Spring		Hardware needed for a LAN	Wireless Access Point (W/AP)	
1&2			Routers	
			Switches	
			Network Interface Controller/Card (NIC)	
			Transmission Media	
			Understanding and comparing the word	
			between a Star topology and a Mesh topology	
		Topologies		

	Whilst explaining what are the advantages and disadvantages of both
	Look at and investigate what are the advantages and drawbacks to both wired and wireless networks.
Wired and Wireless networks	Learn how encryption is used and what the benefits are for its use
Encryption	Learn which of the following common protocols would be used for different tasks then apply this knowledge to different
Protocols	
	Protocol)
	HTTP (Hyper Text Transfer Protocol) HTTPS (Hyper Text Transfer Protocol Secure)
	FTP (File Transfer Protocol)
	POP (Post Office Protocol)
	SMTP (Simple Mail Transfer Protocol)
	Understand how the concept of layers are
	used with protocols, and the benefits of using layers; referring to the 4-layer TCP/IP model
Lavers	Learn to recognize the different forms of
	attacks which can negatively affect a network:
	Malware
	Social Engineering Brute-force attacks
Threats to computer systems and networks	Denial of service attacks
	Data interception and theft

		SQL Injection
		Identifying the different methods available
		which can help prevent threats:
		Penetration testing
		Anti-malware software
		Firewalls
		User Access Levels
	Preventative measures and identifying	Passwords
	vulnerabilities	Encryption
		Physical Security
		Identifying and explaining the need for
		operating systems whilst looking at the
		functionality of the following:
		User interface
		Memory Management
		Multitasking
	Operating systems	User Management
Systems		File Management
Software		
		Students should understand that:
		Data is transferred between devices and the
		processor
		This process needs to be managed
		User management functions, e.g.:
		Allocation of an account
		Access rights
		Security, etc.
		File management, and the key features, e.g.:
		Naming § Allocating to folders

			Moving files
			Saving atc
			Saving, etc
			Understanding the different types of utility
			onderstanding the different types of utility
			Software and what their function is.
			Understand that computers often come with
			utility software, and how this performs
			housekeeping tasks. (Encryption, Compression,
			Defragmentation)
		Utility Software	
			Technology introduces ethical, legal, cultural,
			environmental and privacy issues. Knowledge
			of a variety of examples of digital technology
			and how this impacts on society. An ability to
			discuss the impact of technology based around
			the issues listed.
		Ethical, legal, cultural and environmental	
Ethio	ical, legal,	impacts	Learn the purpose of each piece of legislation
culti	ural and		and the specific actions it allows or prohibits.
envi	rironmental		The need to license software and the purpose
impa	oacts of		of a software licence
digit	tal		Features of open source (providing access to
tech	hnology		the source code and the ability to change the
		Legislation relevant to Computer Science:	software)
		The Data Protection Act 2018	Features of proprietary (no access to the
		Computer Misuse Act 1990	source code, purchased commonly as off-the-
		Copyright Designs and Patents Act 1988	shelf)
		Software licences (i.e. open source and	Recommend a type of licence for a given
		proprietary)	scenario including benefits and drawbacks
			Understanding of these principles and how
			they are used to define and refine problems

Algorithms	Computational Thinking Principles of computational thinking: Abstraction Decomposition Algorithmic Thinking Designing, creating and refining algorithms Standard searching algorithms: Binary search Linear search Standard sorting algorithms: Bubble sort Merge sort Insertion sort	Identify the inputs, processes, and outputs for a problem Structure diagrams Create, interpret, correct, complete, and refine algorithms using: Pseudocode Flowcharts Reference language/high-level programming language Identify common errors Trace tables Learn an understanding of the main steps of each algorithm Understand any pre-requisites of an algorithm Apply the algorithm to a data set Identify an algorithm if given the code or pseudocode for it Practical use of the techniques in a high-level language within the classroom Understanding of each technique Recognise and use comparison and arithmetic operators	
	The use of variables, constants, operators, inputs, outputs and assignments.		

		The use of the three basic programming		
		constructs used to control the flow of a		
		program:	Learn and use the different data types in a	
		Sequence	high-level language within the classroom	
		Selection	Ability to choose suitable data types for data in	
		Iteration (count, and condition controlled	a given scenario	
			a given scenario	
		The second entitle second and	to receive the second through	
		The common arithmetic operators	temporarily changed through	
		The common Boolean operators AND, OR	casting, and where this may be useful	
		and NOT		
Summer	Programming		Practical use of the additional programming	
1&2	Fundamentals	Data Types:	techniques using a high-level language within	
		Integer	the classroom.	
		Real	Enhance their ability to manipulate strings,	
		String	including:	
		Boolean	Concatenation	
		Casting	Slicing	
			Arrays as fixed length or static structures	
			Use of 2D arrays to emulate database tables of	
		Additional programming techniques:	a collection of	
		The use of basic string manipulation	fields, and records	
		The use of basic file handling operations:	The use of functions	
		Open	The use of procedures	
		Read	Where to use functions and procedures	
		Write	effectively	
		Close	The use of the following within functions and	
		The use of records to store data	procedures:	
		The use of SOL to search for data	local variables (constants	
		The use of arrays (or equivalent) when	global variables (constants	
		solving problems, including	gioual valiables/constallts	
		both one dimensional (1D) and two	arrays (passing and returning)	
		both one-dimensional (1D) and two-		
		aimensional arrays (2D)	SELECI	
		How to use sub programs (functions and		
		procedures) to produce	WHERE	
		structured code		

Random number generation	Be able to create and use random numbers in a program
Defensive Design considerations: Anticipating misuse Authentication Input validation Maintainability:	Enhance the understanding of the issues a programmer should consider to ensure that a program caters for all likely input values Understanding of how to deal with invalid data in a program Authentication to confirm the identity of a user Practical experience of designing input validation and simple authentication (e.g. username and password) Understand why commenting is useful and apply this appropriately
Naming conventions	Learn and compare the difference between
Indentation	testing modules of a program during
Commenting	development and testing the program at the
	Syntax errors as errors which break the
	grammatical rules of the programming
	language and stop it from being run/translated
	Logic errors as errors which produce
Testing	unexpected output
The purpose of testing	Normal test data as data which should be
Itorativo	accepted by a program without causing errors
Final/terminal	which is on the very edge of heing valid
Identify syntax and logic errors	Invalid test data as data of the correct data
Selecting and using suitable test data:	type which should be rejected by a computer
Normal	system
Boundary	
Invalid/Erroneous	

	Refining algorithms	Erroneous test data as data of the incorrect data type which should be rejected by a computer system Ability to identify suitable test data for a given scenario Ability to create/complete a test plan	
		Learn/compare each gate symbol and apply this knowledge to different scenarios.	
		Learn how to create, complete or edit logic diagrams	
		Learn how to complete a the truth tables for each logic gate	
Boolean Logic	Simple logic diagrams using the operators AND, OR and NOT Logic Circuits/Diagrams Truth Tables	Ability to work with more than one gate in a logic diagram	
	Combining Boolean operators using AND, OR and NOT	Understand and identify the differences between high- and low-level programming languages	

Languages	Characteristics and purpose of different levels of programming language: High-level languages Low-level languages	Learn to explain how a translator works and the need for them	
	The purpose of translators		
		Explain and demonstrate the differences,	
	The characteristics of a compiler and an	benefits and drawbacks of using a compiler or	
	interpreter	Interpreter	
		Create an understanding of the tools that an	
		IDE provides	
The Integrated	Common tools and facilities available in an	How each of the tools and facilities listed can	
Development	Development Environment (IDE):	program	
Environment	Editors	Practical experience of using a range of these	
(IDE)	Error diagnostics	tools within at least one IDE	
	Run-time environment		
	Translators		



Our intent is to provide Sale High students with broad scope of knowledge that challenges the way students think about the arts and teaches them to accept and embrace difference. We want our students to be confident and understand how the arts can benefit all aspects of life such as promoting confidence and good communication skills, to teach them that creating safe and comfortable spaces where people of all backgrounds can make, celebrate and learning together is empowering. Students study a range of topics containing either a written, devised or scripted aspect that prepares them for GCSE and beyond. Topics are chosen to develop creativity and co-operation and challenge students to experience a range of perspectives, issues and events. There is a sharp focus on developing students descriptive, analytical, and evaluative skills, crucial skills for life beyond Sale High School. Students develop knowledge of theatrical styles, script writing, vocal skills and physical skills to build confidence and enhance communication skills and literacy skills. Students implement, improve and transfer these skills through a variety of context, to encourage flexible learners. Students experience both traditional styles of drama and more contemporary, challenging them to develop opinions and appreciate work that is not necessarily what they would choose to watch. This promotes acceptance and a balanced outlook crucial to life in general.

Why I study Drama?

I study Drama because:

- I can be creative and collaborative
- I learn how to present myself to an audience
- I will view the world from different perspectives

Cultural capital/enrichment

Performance/presentation skills - awareness of the audience, self-confidence, use of vocal and physical skills

- -Exploration of own thoughts and feelings through a character, considering what is right and wrong
- -Creative collaboration to develop working relationships outside of friendship groups
- -Giving/receiving constructive criticism about peer's performances
- -Observing different types of theatre from different time periods and countries
- -Writing for particular audiences, considering the emotions/experiences of the character they are portraying
- -Working with challenging topics in order to expand their understanding of 'real' issues, including mental health issues and peer pressure
- Participating in our Extra-curricular drama company 'Platinum Stars' (an opportunity for students be part of a fun and safe environment for young people to experience creating and rehearsing theatre performance for a specific event)
- -Participating in the whole school production allows students to experience performing in a theatre, to a paying audience.

Half	Topic	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
term				(Summative and formative)
NMUTUA	COMPONENT 3 – Texts in Practise & Component 1 – Understanding Drama	Component 3 Text in Practice Creating Key Extracts from A Play (20%) Students will perform Monologues, Duologues, or a group piece from a set text. The performances will be recorded and sent to an external examiner to mark the student's performance. The students must: • Demonstrate a practical understanding of the text • Interpret text effectively • Create and communicate meaning • Realise artistic intentions in text-based drama Component 1 – Understanding Drama Students will use the remainder of the course to revise for their final examination. We merge practical lessons (exploring the script of <u>Blood</u> <u>Brothers</u>) with a wide range of revision strategies to allow all learners and all learning styles to access the best revision tools they need to prepare fully for the exam paper. <u>Live Theatre Review</u> Students will complete a study and analysis of a digital theatre performance. They will prepare for possible examination questions, refine their work and redraft to ensure they have a clear understanding of the performance and the possible questions they will study.	Component 3 Text in Practice Demonstrate a practical understanding of the text by effectively applying the content and context of a play they are given. Learn to interpret the text to convey its deeper meanings, themes, and nuances. Know how to create and communicate the intended meaning of the text through their performances. How to increase the range of vocal and physical skills to perform a script and create appropriate characters Component 1 – Understanding Drama Students will engage in practical lessons, diving deep into the script of "Blood Brothers" to build a solid foundation of understanding of the characters, context, plot and ways to interpret different roles. Students will learn how to answer the questions from the written exam and will use metacognitive strategies to help remember how to structure/key skills to include in their answers. Live Theatre Review Students will learn to identify where actors have used vocal and physical skills to convey meaning. Students will how to analyse and evaluate performances from an actor in order to answer the live theatre review question in the exam.	(Summative and formative) Groups perform in front of the class and teacher frequently so feedback is given throughout lessons. Frequent, in class, timed questions. Use of whiteboards, questioning and written assessments. Winter PPE – Covering Component 1 content

ŋ	3 & 1	Continued study of units, as above.	Continued study of units, as above.	Component 3 GCSE scripted performance with external
SPRIN	COMP			examiner.
				February PPE
		Component 1 – Understanding Drama	Component 1 – Understanding Drama	Frequent, in class, timed
				questions.
		Students will use the remainder of the course to revise for	Students will continue their work on "Blood Brothers" to bene their understanding of the	
			characters, context, plot and ways to interpret	Use of whiteboards,
		Exploring and refining a wide range of revision strategies	different roles. They will apply this knowledge to a	questioning and written
		to allow all learners to access the best revision tools they	variety of sample questions to prepare them for the	assessments.
		need to prepare fully for the exam paper.	written exam. Students will analyse the quality of	
ER	H		them against exemplar answers.	
Σ	MP		Students will be taught where marks were lost in	
SUN	00		previous student work in order to avoid the same	
			mistakes.	
		Completion of Live Theatre Review	Completion of Live Theatre Review	
		Students will complete a study and analysis of a digital	Students will refine their review and relate their	
		theatre performance. They will prepare for possible	findings to their own work in order improve written	
		examination questions, refine their work and redraft to	exam preparation and incorporate skills into	
		ensure they have a clear understanding of the	practical work they continue to undertake both	
		performance and the possible questions they will study.		



- Design & Technology encourages students to make informed technological choices, considering global, cultural, ethical, environmental, political, and economic factors.
- Students learn to innovate by combining traditional and modern technologies, focusing on the iterative design cycle to develop creative solutions to everyday challenges.
- The subject integrates mathematics, science, engineering, computing, geography, business, and art.
- It goes beyond practical skills, developing Creative Thinking & Innovation, Problem-Solving, Practical & Technical Skills, Collaboration & Teamwork, Project Management, Analytical & Research Skills, Resilience & Adaptability, Entrepreneurial Thinking, and Attention to Detail.

Why I study Design & Technology?

We provide opportunities, which allow students to develop a knowledge of a range of technology areas in KS3. Students should grow in confidence through dedicated teaching environments, manufacturing equipment and specialist teaching. As students' progress to KS4 they choose an area within Design & Technology to study. In the chosen area, the subject allows for deeper study of the world they live in, potential career opportunities and with the skills developed at KS3 the confidence to take risks, become resourceful, innovative, enterprising and capable citizens. The subject encourages students to design and make products that solve real and relevant problems, within a variety of contexts, while considering their own and other's needs, wants and values. Cultural capital is explored across the key stages by appreciation of the work of others locally, nationally and internationally, each subject identifies and relates to real contextual challenges focussing upon people, communities or businesses.

I learn Design & Technology because:

- It allows me to be creative and innovative.
- It develops my problem solving and evaluation skills.
- It increases my understanding of how the world around me has been created.

Cultural capital/enrichment

Our carefully structured DT curriculum provides opportunities that are additional to the National Curriculum. Design technology helps to build cultural capital through exposure to life-skills such as innovation and entrepreneurship. Our curriculum enables and nurtures a love of design and technology, helping students to develop the skills required for their future working life.

Students will learn about a range of areas where designing and creating for a purpose take places. We link these subjects to real life experiences and famous designers and communicating ideas and developing prototypes using CAD.

Half term	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
				(Summative and formative) Key
				pieces

Autumn 1&2	Gcse NEA.(course	Students will complete a controlled assessment		The NEA is a controlled
Spring 1&2	work).	that will form 50% of their final GCSE Grade.		assessment. There are strict
		Key knowledge that they must cover is:		requirements when using
				assessment and feedback.
		Understand that all design and technological	Be able to analyse context in detail to	Students must work
		practice takes place within contexts	identify design possibilities.	independently and self-assess
		which inform outcomes.		their own work against the
				gcse speciation's criteria.
		know how to Identify and understand client	Be able to analyse the wants and needs of a	
		and user needs through the collection of	consumer and produce a report that takes	
		primary and secondary data.	into consideration primary and secondary	
			data.	
		Demonstrate an ability to write a design brief		
		and specifications from their own and others'	Be able to write 3 design briefs that identify a	
		considerations of human needs, wants and	design problem and consumer. Be able to	
		interests.	write a detailed specification that has	
			measurable criteria.	
		Understand how to investigate factors, such as		
		environmental, social and economic challenges,	Be able to conduct research that reflects on	
		in order to identify opportunities and	sustainability, social and human factors and	
		constraints that influence the processes of	be able to use this research to help form	
		designing and making.	their design decisions.	
		Know how to explore and develop their ideas,	Be able to develop designs using the iterative	
		testing, critically analysing and evaluating their	method, students will be able to use arrange	
		work in order to inform and refine their design	of methods including sketching, CAD and	
		decisions thus achieving improved outcomes.	prototyping. Students will be able to use the	
		Understand the importance of Investigating the	their design ideas	
		work of past and present professionals and		
		companies in the area of design and technology		
		in order to help inform their own ideas.		
		Understand how to develop, communicate		
		record and justify design ideas applying		
		suitable techniques for example: formal and		
		informal 2D and 3D drawing: system and		
		schematic diagrams: annotated sketches:		
		exploded diagrams; models; presentations;		
		written notes: working drawings: schedules:		

		audio and visual recordings; mathematical modelling; computer-based tools. Understand how to design and develop at least one prototype that responds to needs and/or wants and is fit for purpose, demonstrating functionality, aesthetics, marketability and consideration of innovation. Know how to make informed and reasoned decisions, respond to feedback about their own prototypes (and existing products and systems) to identify the potential for further development and suggest how modifications could be made.	Be able to make a commercially viable prototype that meets the wants and needs of an identified user and meets the requirements of a design specification. Be able to evaluate prototypes taking into consideration feedback received and suggest ways that the prototype can be improved.	
Summer 1&2	Exam preperation	 Students will prepare for the summer exam by revisiting core and specialist knowledge covered in year 10. Technical principles Core knowledge and understanding topic areas: design and technology and our world smart materials electronic systems and programmable components mechanical components and devices materials In-depth knowledge and understanding topic areas: electronic systems, programmable components & mechanical devices materials In-depth knowledge and understanding topic areas: electronic systems, programmable components & mechanical devices papers & boards natural & manufactured timber ferrous & non-ferrous metals thermoforming & thermosetting polymers fibres & textiles 	Be able to develop core and specialist knowledge that will enable students to fully access the written GCSE exam.	Students will be assessed through varying formative and summative methods. White board quizzing. Online quizzes Practice exams Peer and self-assessment activities

Curriculum Map Year English 11:



Intent: Across both Key Stages, we aim to ensure that our students are able to learn how to **identify** and **explore** the **impact of language** within a variety of different contexts. We explore various genres, forms, structures and purposes of literary works, in order to emphasise the importance of reading and writing as a way of **successfully engaging with the world**, both within the school context and the wider society. At the core, we strive to inspire our young learners to become **competent and confident communicators**, consciously teaching reading and writing skills within every year group, which enables us to demonstrate the progress students make when accessing a multitude of texts which have been produced across the ages for a variety of different reasons.

Through the Key Stages we have designed the curriculum to help our students both improve and refine their reading and writing skills, with a progressively more demanding set of skills taught and revisited throughout the schemes as students travel from Year 7 to Year 11, implementing things such as variations of sentence structures and increasingly difficult and interesting vocabulary. We explore the **etymology** of language and how this correlates to the context from within which it was written, aiding our students' ability to **interpret and infer** with greater confidence.

We want to inspire our students to develop their own **love of language**, to become **critical thinkers**, engaging with moral ideas, and to widen their perspectives when establishing their own impressions and opinions when exploring literary materials. Furthermore, we continue to develop our curriculum content to encourage and enable our students to be empathetic with different points of view, to be understanding when analysing and evaluating character and theme and to be able to both speak and write with clarity and purpose.

Why I study English?

I study English because:

- It enables me to communicate freely and effectively
- I understand more about global culture, thought and literature
- Having a love of language and literature transports me to other worlds

Cultural capital/enrichment

Whilst curriculum time in Year 11 is both precious and limited, students are still afforded the opportunity to develop their understanding of the set Literature texts studied in the form of live performances and workshops. In the Autumn term, we will be welcoming performers into school for an on-site visit, which will be delivered in our Main Hall. They will be offering our students a performance of both Shakespeare's 'Macbeth' and Charles Dickens' 'A Christmas Carol', both of which will be assessed in the AQA Literature Paper 1. Following this, in early Spring we will also be running an afterschool trip to watch a live performance of J.B Priestley's 'An Inspector Calls'.

Half term	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
				(Summative and
				formative) Key pieces

Autumn 1 (8 weeks)	'A Christmas Carol' (C19th Fiction – AQA Literature Paper 1)	Students will explore the social and historical context of the Victorian period and will analyse how Charles Dickens used language, themes and structure to appeal to Victorian readers, as well as how he addressed social inequalities of the Victorian period. In their final exam, students will be required to analyse a theme or character within an extract and elsewhere in the play as a whole, so will study plot, characters, themes and Dickens' use of language, whilst developing skills of critical interpretation. Students will engage with an in-depth study and close annotation of the whole novella in the classroom.	 Students will be given opportunities to develop the key skills of the Assessment Objectives, which include developing a personal response (AO1), using textual references/quotations to support interpretations (AO1), analysing language, form and structure (AO2) and considering the context behind the novella (AO3). Students will develop and refine skills in: Revision of plot and character; Understanding and successfully commenting on the message and social criticism in the text; Understanding how to structure a literary essay and develop personal response; Successfully selecting whole and judicious textual references; Referencing relevant Victorian context of 'A Christmas Carol'; The analysis and interpretation of symbols/symbolism/allegorical messages. 	Formative on-going assessment of knowledge using starters and plenaries, low stakes quizzing and whole class feedback sheets. Reading: vocabulary, comprehension, inference & analysis. Oracy: Reading out loud to stress modifiers (and therefore meaning). Mid-term assessment: Partial exam response/essay on an unseen (but previously studied) extract from the novella, addressing the first of the two assessment criteria – responding to the question in relation to the <u>extract only</u> . They will be given feedback on how they demonstrate AO1, AO2 and AO3. End of topic assessment: Full exam response/essay on an unseen extract from the novella, addressing both of the assessment criteria – responding to the question in relation to both extract and whole text. They will be assessed on AO1, AO2 and AO3.
Autumn 2 (7 weeks)	'A Christmas Carol'	Students will start the term by completing and consolidating their learning of the C19th text (see Autumn 1 for Knowledge and Skills taught), before revisiting their prior learning from Year 10 of the AQA Language Paper 1,	Student will return to and refine their skills of: - Knowing how to actively read and annotate; - identifying and explaining a writer's intention in a play and poetry;	Whole class feedback sheets. Winter Exams: Students will complete a full AQA Literature Paper 2 in exam conditions.

	(C19th Fiction – AQA Literature Paper 1) Winter Exams (AQA Literature Paper 2 Revision and Assessment)	 which will be assessed in the Winter Exam series. AQA Literature Paper 2 Revision: Students will revise the set text 'An Inspector Calls', the 'Power and Conflict' poetry anthology, and the skills required to successfully comment on/analyse unseen poetry to equip them with the skills needed for their GCSE mock exam this term. As part of this revision, students will: Show an understanding of tasks/texts, plot, characters. Use quotations and make inferences (AO1); Explain, comment and analyse the use of language & structural features to achieve effects and influence readers (AO2); Show an understanding of the relationship between the texts and the context they were written (AO3); Use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation (AO4); 	 identifying language and structural techniques used, e.g. metaphor, simile, personification, semantic field; identifying and explaining the impact of structural techniques (use of dialogue, developments across text, changes in setting & character, foreshadowing, flashbacks, media res, rhyme, juxtaposition etc.); identifying and explaining the use of form; using quotations to support responses: varying length and being judicious; responding to a previously unseen text (unseen poetry); writing thesis statements and refining their essay writing skills, including writing comparisons. 	This will be completed within the school's mock exam window, and will be in controlled conditions.
Spring 1 (6 weeks)	'Macbeth' (Shakespeare play – AQA Literature Paper 1)	Students will develop an understanding of the classic tragedy, as well as exploring the context of the production of 'Macbeth'. They will further develop their ability to respond to a literary text, writing analytically through their exploration of how Shakespeare uses language, structure and dramatic techniques to present characters and themes. Students will be required to analyse a given extract and explore themes, characters and ideas presented in both the extract and	 Building on the previous Literature units already studied by this point, students will develop an understanding of how to: Identify and interpret the focus of their GCSE question, in order to craft successful responses; Carefully select relevant and valuable references from the text for the purpose of analysis; Successfully structure an essay response, practising the use of topic 	Formative on-going assessment of knowledge using starters and plenaries and low stakes quizzing to incorporate spiral learning. Whole class feedback sheets. Reading: vocabulary, comprehension, inference & analysis. Oracy: Reading out loud to stress modifiers (and therefore meaning).

		elsewhere in the play, so will be working on developing skills of written analysis in response to their reading of the play. They will develop a confident understanding of Shakespeare's characters, themes, ideas, social and historical context of the Jacobean era, as well as how to approach and interpret Shakespeare's language in order to successfully interpret and analyse this. Students will explore how ideas within the text are contextually linked and shaped by society at the time and learn how to effectively cross-reference ideas to formulate a perceptive and critical argument.	sentences and/or a thesis statement; - Effectively analyse a writer's use of language, structure and form, using accurate subject terminology.	Mid-term assessment: Partial exam response/essay on an unseen (but previously studied) extract from the play, addressing the first of the two assessment criteria – responding to the question in relation to the <u>extract only</u> . They will be assessed for AO1, AO2 and AO3. End of topic assessment: Full exam response/essay on an unseen extract from the full play, addressing both of the assessment criteria – responding to the question in relation to both extract and whole text. They will be assessed on AO1, AO2 and AO3.
Spring 2 (6 weeks)	'Macbeth' (Shakespeare play – AQA Literature Paper 1) PPE Exams (AQA Language Paper 2 Revision and Assessment)	Students will start the term by completing and consolidating their learning of the Shakespeare play (see Spring 1 for Knowledge and Skills taught), before revisiting their prior learning from Year 10 of the AQA Language Paper 2, which will be assessed in the PPE Exam series. AQA Language Revision: Students will explore a variety of non-fiction text types from the 19th, 20th and 21st centuries, analysing how writers use language, structure and form to share ideas. As part of this revision, students will:	 Student will return to and refine their skills of: knowing how to read in an active way understanding the TAP of a text: type, audience and purpose being able to locate key pieces of information knowing how to summarise differences between texts and synthesise information; knowing how to analyse language choices in a text; 	SPR2 PPE Exams (Dates TBC): Students will complete a full AQA Language Paper 2 in exam conditions, as well as a full Shakespeare's 'Macbeth' response. These will be completed within the school's mock exam window, and will be in controlled conditions.

	- Identify and interpret explicit and implicit information and ideas (AO1); Synthesise explicit and implicit information (AO1); Explain, comment and analyse the use of language (AO2); Compare writers' ideas and how they are conveyed (AO3); Communicate clearly and organise information (AO5; use a range of punctuation and vocabulary (AO6).	 knowing how to identify mood and tone in a text, including humour and sarcasm; knowing how to identify and compare viewpoints and perspectives; using quotations to support: varying length and being judicious; knowing how to write letters, articles, speeches, leaflets etc. with a clear viewpoint writing with a range of sentence structures and punctuation to create nuance; knowing how to write in clearly linked paragraphs; knowing how to plan appropriately, in accordance with the specified text type in Section B.
Summer Term	GCSE Revision will take place in class, recapping and revisiting kn the AQA	Exams begin. Nowledge and skills in order to suit the scheduling of exams within exam timetable.

	Cultural capital/	enrichment – In Year 11 pupils will act as Food Tech ambassadors.	Pupils will take part in Careers day for this subject.	
alf rm	Торіс	Key knowledge: WJEC Eduqas Food Preparation and Nutrition.	Key skills I will learn in this topic:	Assessment opportunities (Summative and formative) Key pieces
itumn and 2	NEA assessments	 Pupils will understand the requirements of the Year 11 course including: food investigation task • food preparation task • final exam. (This is not included in time allowed for NEA1) 	Pupils will be able to: Select their chosen task Identify key points to address from the task	Assessment opportunities are provided through: *Quick quizzes *Practice exam guestions
		Understand the requirements of the food investigation task including: • research, plan and carry out an investigation into the working characteristics, functional and chemical properties of ingredients • record the investigation findings • analyse and evaluate results • present the food investigation task. For this task students will: Develop research skills to gather and use primary and secondary sources of information. Develop analysis and evaluation skills and explain how findings will influence practical investigations. Develop investigation skills into the working characteristics, functional and chemical properties of ingredients as identified in research findings.	 analysis of chosen task generate a list or mind map of the research needed to be carried out before commencing practical investigations Write up what they already know about this task using year 10 notes. identify secondary sources of research that could be used to gather information or data -secondary research: textbooks, websites, multimedia including animations, YouTube clips, TV programmes, prior knowledge, magazines, newspaper articles, leaflets, food labels and packaging etc. all research must include: Write a clear aim that is focused and relevant to task Gather relevant sources of information from a variety of secondary methods of research Analysis, conclusions and summary of findings to include their previous knowledge. Explanation of how findings may influence practical investigations Plan for the practical investigations related to the research Write a clear and focused hypothesis or prediction a record of all sources to record in a bibliography at the end of the report. 	Literacy task – Answering open response exam question Spelling bees
			 Use plan to carry out a wide range of appropriate practical investigations, linking directly to hypothesis/ prediction Work under controlled conditions to undertake the practical investigations. Take essential control checks to ensure fair testing using their plan Take photographs at each stage of the investigation showing method and results. These must be authenticated with labels including student's full name. Gather data using pre-prepared sheets and equipment based on their chosen tests. Add data and photos to work which should be annotated Write analysis and evaluation to include: 	

	Focused Revision for winter exam	Develop analyse and interpret the results of investigative work. Further develop revision skills	 -detailed analysis of all results and interpretation of findings for all investigative work -written conclusions with justification of findings as a result of carrying out the practical investigations •Detailed explanation and evaluation of results and findings. (To include evaluation of the how successful the investigation was, the effectiveness of control checks to ensure fair testing, the success of the investigations at proving predictions/hypothesis. Use different techniques to revise for exam. Practice answer different exam questions using a range of command terms: Identify 	Peer assessment After assessed exam paper completed student carry out DIRT
ring 1 d 2	NEA2	Understand the requirements of the food preparation task including: • analyse a task and carry out research • demonstrate a range of technical skills • Justify and plan a final menu • prepare, cook and serve three dishes in a three 3hour session • analyse and evaluate final menu	 -Plan and carry out research into chosen task. -Research to gather and use primary and secondary sources of information for the chosen task. -Analysis and evaluation skills for research gathered. -Explain how findings will influence practical investigations. -Write up research in a concise and effectively communicated portfolio of work. -Plan relevant and appropriate practical activities. -Justify final three dishes to make -Make the three dishes with suitable accompaniments (3hrs) -Analyse and evaluate what was made based on the task 	
			 Analysis of chosen task and identification of what the task requires and involves. Research identification of relevant primary and secondary sources of research that could be used to gather information or data gathering data from primary sources/information that has not been generated by other people, eg survey, interview, market research, menu analysis, existing product testing or questionnaire gathering data from secondary sources including textbooks, websites, YouTube, TV programs, previous knowledge, magazines, 	
			newspaper articles, leaflets, food labels and packaging vits to restaurants and cafes etc. -summarise research of findings and say how they may influence practical activities. Demonstrate technical skills -make 6 dishes as part of the research -evaluate dishes made to help decide on final practical. Justify -Give reasons for practical decisions based on research findings. Planning -Write a time plan for three hours to be used for making 3 dishes and suitable accompaniment Demonstrate technical making skills for final Make dishes planned Evaluate -Evaluate final practical	
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mmer and 2	Revision and exam	 The following will be covered in this period: Complete Food provenance unit how the written exam is organised how to prepare for the written exam the command words used in written exam the types of questions that will be asked in a written exam including: 		*Practice exam questions Literacy task – Answering open response exam question Spelling bees Peer assessment After assessed exam paper completed student carry out DIRT Teacher assess and feedback where marks are allocated and lost



Intent: Geography at Sale High School is intended to provide a wealth of knowledge about the world both globally and just outside their window. Students will have the opportunity to explore a wide range of human and physical geography from urban environments and globalisation to ecosystems and coasts. Students will be encouraged to not only learn facts from local and global case studies, but to apply their own understanding and judgement, and at times debate critical issues in geography. From this we hope that each student can gain their own unique but well-informed understanding of the world around them.

In Year 11, students complete units across all three papers for their final examinations. They will learn about diverse environments, such as the hot deserts in Pakistan and rivers in the UK, as well as human features of the UK economy and Manchester as a key UK city, especially significant as it is best known by Sale High Students. By the end of Year 11 we want our students to knowledgeable about the world around them and have a deep understanding of the forces that govern their lives, so that they can empowered and contribute to their communities. We hope that our students feel fulfilled from their studies of Geography at Sale High School and that many of them will choose to study geography beyond high school, or at least to travel and have exciting experiences in the world beyond Greater Manchester.

Why do I study Geography?

- It helps me to understand the wider world.
- I can better appreciate diversity.
- I will become a global citizen who can make a positive change.

Cultural capital/enrichment

Fieldwork opportunities – Visit to Salford Quays in Year 10 highlights the change in industrial structure in the UK. Read – A Short History of Nearly Everything by Bill Bryson, Can We Protect People From Natural Disasters? by Earth Debate, No One Is Too Small To Make A Difference by Greta Thunberg, There Is No Planet B by Mike Breners-Lee, This is Planet Earth by New Scientist Watch – Planet Earth – Hot Deserts on BBC iPlayer, Brassed Off (cert 15) – industrial decline in the UK. Do - Visit to a local woodland e.g. Delamere Forest to consider relationships between biotic and abiotic features. Local business (Stanley Green) and science parks (Waters Science Park) to consider how their features support the economic activities carried out.

Half	Торіс	Key knowledge	Key skills I will	Assessment
term			learn in this topic	opportunities
				(Summative and
				formative) Key
				pieces

1	Paper 1 Section B Part ii: The Living World - Hot Deserts	 The physical characteristics of a hot desert. The interdependence of climate, water, soils, plants, animals and people. How plants and animals adapt to the physical conditions. Issues related to biodiversity. A case study of a hot desert to illustrate: development opportunities in hot desert environments: mineral extraction, energy, farming, tourism. Challenges of developing hot desert environments: extreme temperatures, water supply, inaccessibility. Causes of desertification – climate change, population growth, removal of fuel wood, overgrazing, over-cultivation and soil erosion. Strategies used to reduce the risk of desertification – water and soil management, tree planting and use of appropriate technology. 	•	Latitude Analysing photographs Choropleth maps Atlas maps – location of Thar Desert	• • •	Exam practise done in class based on: Adaptations in the hot desert Preventing desertification. Half term summative assessment consisting of a range of knowledge, skill and extended writing sections from AQA past
1	Paper 2 Section A Part ii A UK City – Manchester	 Overview of the distribution of population and the major cities in the UK. Illustrate the location and importance of Manchester in the UK and the wider world; and impacts of national and international migration on the growth and character of the city. How urban change has created social and economic opportunities in Manchester: cultural mix, recreation and entertainment, employment, integrated transport systems. How urban change has created environmental opportunities in Manchester: urban greening How urban change has created social and economic challenges in Manchester: urban deprivation, inequalities in housing, education, health and employment How urban change has led to environmental challenges: dereliction, building on brownfield and greenfield sites, waste disposal The impact of urban sprawl on the rural–urban fringe, and the growth of commuter settlements, such as Sale. An example of an urban regeneration project (Salford Quays) to show: reasons why the area needed regeneration • the main features of the project. Features of sustainable urban living in Freiburg, Germany: water and energy conservation, waste recycling, creating green space. How urban transport strategies are used to reduce traffic congestion in Freiburg. 	•	Use of qualitative and quantitative data. Use of OS maps – inferring human activity from evidence, identifying locations from photographs, labelling, four and six-figure grid references.	• • •	papers. Exam practise done in class based on: The significance of challenges in Manchester Features of sustainable cities Winter Exam consisting of a range of knowledge, skill and extended writing sections from AQA past papers.
2	Paper 1 Section A Part ii Weather Hazards and Climate Change	 General atmospheric circulation model: pressure belts and surface winds. Global distribution of tropical storms (hurricanes, cyclones, typhoons). An understanding of the relationship between tropical storms and general atmospheric circulation. Causes of tropical storms and the sequence of their formation and development. The structure and features of a tropical storm. 	•	Latitude and longitude Diagrams Satellite images Magnitude and frequency	•	Exam practise done in class based on: The impacts of tropical storms The causes of climate change

		How climate change might affect the distribution, frequency and intensity of	•	Qualitative and	•	Half-term
				quantitative data		summative
		Primary and secondary effects of tropical storms. Immediate and long-term	•	Line graphs		assessment
		responses to tropical storms. Use a named example of a tropical storm to show				consisting of a
		its effects and responses.				range of
		 How monitoring, prediction, protection and planning can reduce the effects of transies starting. 				knowledge, skill
						writing soctions
		An overview of types of weather hazard experienced in the UK.				from AOA past
		An example of a recent extreme weather event				from AQA past
		• in the UK to illustrate: causes, social, economic and environmental impacts, how				papers.
		management strategies can reduce risk.				
		• Evidence that weather is becoming more extreme in the UK. Evidence for climate				
		change from the beginning of the Quaternary period to the present day.				
		• Possible causes of climate change: natural factors – orbital changes, volcanic				
		activity and solar output. Human factors – use of fossil fuels, agriculture and				
		deforestation.				
		• Overview of the effects of climate change on people and the environment.				
		• Managing climate change: mitigation – alternative energy production, carbon				
		capture, planting trees, international agreements. Adaptation – change in				
		agricultural systems, managing water supply, reducing risk from rising sea levels.				
3	Paper 2 Section	• Economic futures in the UK: causes of economic change: deindustrialisation and	•	Line graph and pie	•	Exam practise done
	В	decline of traditional industrial base, globalisation and government policies.		chart analysis		in class based on:
	Part ii:	 Moving towards a post-industrial economy: development of information 	•	Aerial	•	Industry becoming
	The Changing	technology, service industries, finance, research, science and business parks.		photographs along		more sustainable
	Economic	 Impacts of industry on the physical environment. An example of how modern 		with OS maps	•	The north-south
	World – The UK	industrial development can be more environmentally sustainable		(location of		divide
	Economy	• Social and economic changes in the rural landscape in one area of population		science and	•	PPF / Summer
		growth and one area of population decline.		business parks)		Exam consisting of
		 Improvements and new developments in road and rail infrastructure port and 		· ,		a range of
		airport capacity.				knowledge, skill
		• The north–south divide. Strategies used in an attempt to resolve regional	1			and extended
		differences the place of the UK in the wider world.	1			writing sections
		Links through trade, culture, transport, and electronic communication. Economic	1			from AQA past
		and political links: the European Union (EU) and Commonwealth.				papers.

3	Paper 1 Section	 The long profile and changing cross profile of a river and its valley. 	•	OS map analysis	•	Exam practise done
	С	• Fluvial processes: erosion – hydraulic action, abrasion, attrition, solution, vertical		and describing		in class based on:
	Part ii	and lateral erosion. Transportation – traction, saltation, suspension and solution		river features on	0	River landforms
	UK Landscapes	Deposition – why rivers deposit sediment.		OS maps	0	Engineering to
	– Rivers	• Characteristics and formation of landforms resulting from erosion – interlocking	•	Drawing and		prevent flooding
		spurs, waterfalls and gorges. Characteristics and formation of landforms resulting		annotating	•	PPE / Summer
		from erosion and deposition – meanders and ox-bow lakes. Characteristics and		diagrams		Exam consisting of
		formation of landforms resulting from deposition – levées, flood plains and	•	Cost-benefit		a range of
		estuaries.		analysis		knowledge, skill
		• The River Tees – identifying its major landforms of erosion and deposition.	•	Using key terms		and extended
		• How physical and human factors affect the flood risk – precipitation, geology,	•	Photograph		writing sections
		relief and land use.		analysis		from AQA past
		• The use of hydrographs to show the relationship between precipitation and	•	Use of bivariate		papers.
		discharge.		data, interpolate		
		• The costs and benefits of the following management strategies: hard engineering		and extrapolate.		
		- dams and reservoirs, straightening, embankments, flood relief channels. Soft	•	Use of measures		
		engineering – flood warnings and preparation, flood plain zoning, planting trees		of central		
		and river restoration.		tendency.		
		• Flood management scheme in Banbury to show: why the scheme was required,				
		the management strategy, the social, economic and environmental issues.				
5	Paper 3	• Students will study a pre-release resource booklet that contains information	Lik	ely skills include:	•	Exam practise done
	Section A: Issue	about a geographical issue. The content of the Issue Evaluation is released in	•	Statistical analysis		in class based on:
	Evaluation –	March of the exam year. Topics are based on an aspect of the specification that	•	Understanding	•	The likely 6 mark
	released in	is a compulsory unit. Students will conduct analytical tasks relating to the		different types of		and 9 mark
	March 2024	information in the pre-release booklet. They will consider different opinions		maps		questions based on
		relating to the geographical issue being addressed and will apply their	•	OS maps – scale,		the content of the
		geographical understanding. Students are likely to complete a decision-making		distance, grid		issue.
		exercise where they will decide on the best course of action to deal with the		references		
		geographical issue.	•	calculating		
				averages		
			•	Graph analysis		
			•	Cost-benefit		
				analysis		
6	Exam	• Use of question level analysis to provide bespoke revision lessons for each class,	Co	verage of all skills in		
	Preparation	covering the full range of topics from Papers 1-3.	sp	ecification:		
			•	Geographical		
	1			Cartographic		
			-	carcoBraphic		
			•	Graphical		
			•	Graphical Numerical		



BTEC Health and Social Care is a qualification that gives learners the opportunity to build applied knowledge and skills that show an aptitude for further learning, both in the sector and more widely. The courses content included coursework with a final external assessment at the end of year 11. The course is proven to be successful in building applied knowledge and skills and motivating learners to engage fully with challenging study. There are many progression options as the skills acquired are applicable to a range of post-16 study options.

Why I study Health & Social?

Students opt for BTEC Health and Social Care as it is an engaging and fun topic for them to learn. They will look into each life stage and how PIES (physical, intellectual, emotional, social) interlinks. The course provides them with real-world experiences, enhancing their skills, understanding whilst also nurturing their personal growth. It equips them for a range of in-demand careers in healthcare and social services, making it a pathway to meaningful work and professional development that caters to individuals' comprehensive well-being.

I learn Health & Social because:

- I learn more about well-being, physical, and mental health
- It gives me an insight into health professions
- It will improve my ability to care for others

Half term	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities (Summative and formative) Key pieces
Autumn 1 & 2	Component 2	Non-exam internal assessment set by Pearson, marked by the centre and moderated by Pearson. The Pearson-set Assignment will be completed under supervised assessment, in class.	Students will use their previous knowledge from Summer 1 & 2 to complete their component 2 coursework which will go towards their final grade.	Assessment opportunities are provided through hands down questioning, discussions, brain storming, spider diagrams, quizzes, verbal

			The coursework will cover factors, barriers and services. As well as how services can be used to help a patient or overcome a barrier. Students are given a long period of time, due to be given the opportunity to re-submit their coursework and work on feedback given by the teacher to improve their work.	feedback, self and peer assessment.
Spring 1 & 2	Preparation for Component 3 exam Resists for Component 1 or 2 (certain students)	Factors affecting health and wellbeing Physical, lifestyle, social, cultural, economic, environmental. Interpreting health indicators Physiological, lifestyle indicators Person-centred approach to improving health and wellbeing Recommendations and actions to improve health and wellbeing Barriers and obstacles to following recommendations	Learners will explore their monte learners will explore how factors can affect an individual's health and wellbeing positively or negatively. This links to and extends knowledge and understanding of human lifespan development including life events, covered in Component 1. Here, however, the focus is on the current health and wellbeing of individuals.	Components 1 is assessed through non-exam internal assessment. The non-exam internal assessment for these components has been designed to demonstrate application of the conceptual knowledge underpinning the sector through realistic tasks and activities. This style of assessment promotes deep learning through ensuring the connection between knowledge and practice.
Summer1	Component 3	External assessment set and marked by Pearson, completed under supervised conditions. The assessment will be completed in 2 hours within the period timetabled by Pearson – May/June series	 Component 3 exam will be made up of topics covered in Component 1 & 2: A1: Human growth and development across life stages A2: Factors affecting growth and development B1: Different types of life event 	2 hour exam, under supervised conditions.

			 B2: Coping with change caused by life events Component 2: Health and Social Care Services and Values A3: Barriers to accessing services B1: Skills and attributes in health and social care B2: Values in health and social care B3: The obstacles individuals requiring care may face 	
Summer2	Component 1 & Component 2	Resubmission Of Any Coursework	 How to improve coursework Using feedback to improve work 	Assessment Conditions During Moderation



Within the Humanities department History is an essential subject in order to understand the world we currently live in and the consequences of past events that have shaped present day life. In History there are opportunities for students to develop their literacy and oracy when discussing historical matters such as the causes of events or the significance of important individuals. Learners will be able to analyse and evaluate evidence in order to form their own judgements. This provides pupils with knowledge of the past as well as the skills to construct their own well evidenced arguments on a range of issues.

Our aim is to deliver a broad and ambitious History curriculum, rich in knowledge and disciplinary skills, which immerses students in a range of cultures and develops an enquiring and critical outlook on the world. Our curriculum reflects the complexity and diversity of the past, by exploring a range of different individuals and experiences. Students are able to place their own experiences and identity within the history of the local community, Britain and the wider world. History is important because it enables our students to understand the past and use that knowledge to make informed judgements about the present. Our curriculum is mapped out chronologically from migration pre 1066 to the present day.

Year 11 – Learners have completed AQA Paper 1 in Year 10 so now we continue our study of GCSE history by Paper 2. We begin the year with a depth study of Elizabethan England with a particular 35-year focus on 1568-1603. Learners analyse the major events of Elizabeth I's reign from economic, religious, political, social and cultural standpoints. They will examine how a single female ruler was able to shape England and endure various challenges from home and abroad. Learners will examine a site study linked to Elizabethan England and consider how this historic environment demonstrates certain values from the time period (e.g. the importance of the gentry, Christian attitudes towards the poor, the achievements of English sailors and privateers).

In the second half of year 11 we conclude our study of GCSE History with our breadth study on the themes of migration and empire. This thematic study will enable students to gain an understanding of how the identity of the people of Britain has been shaped by their interaction with the wider world. We study invasions and conquests, the country's changing relationship with Europe and the wider world, the ebb and flow of peoples into and out of Britain and evaluate their motives and achievements. We explore the causes, impact and legacy of Empire as it rises to power and as it eventually crumbles in the 21st century. Learners will examine how the importance of factors (war, new discoveries, economic resources, religion, government and individuals) have influenced Britain's dealings with the wider world.

Why I study History?

I study History because:

- It helps me to develop a clear sense of identity
- I will appreciate the accomplishments of previous generations
- Learning from the past helps create a better future

Cultural capital/enrichment

History provides opportunities for debate and expression of opinion over a variety of issues. Students may explore the role of causes or the significance of consequences and will learn how to apply historical evidence into their own explanations. In order to do this we encourage a wide range of knowledge and experience in order to support them. Sale High School provides Year 11s with a trip to the International Slavery Museum in Liverpool. This is an important site as it links to both our Year 11 GCSE topics as we consider the origins in the 16th century, the ongoing social and economic effects of the slave trade, and the British Empire's legacy and role in being heavily involved and eventually policing and stopping the slave trade. No additional school trips are provided in Year 11 and this is because we feel it is important for learners to be in the classroom during this critical point of their GCSE study and revision. This is to allow them to practice exam skills and gain in-depth knowledge on their assessed topics. Period 6 is utilised to revise topics from Year 10 and to prepare for imminent assessments. Students are also able to access History Catch Up Club in order to recap on studied topics in greater detail and in order to support them in their final year of history. Pupils are encouraged to access age-appropriate media in order to develop their contextual knowledge and to build a deeper understanding of the periods of history being studied. Online channels such as Simple History and Ten Minute History can also bolster classroom knowledge. Websites like BBC Bitesize will often provide content linked to our studied topics and can be utilised as a revision aid. Study Rocket provides information linked to our migration topic. SENECA learning provides AQA History specific content which supports learning on our course.

Half term	Торіс	Key skills I will learn in this topic	Key knowledge	Assessment opportunities (Summative and formative) Key pieces
Autumn 1	Elizabethan England (Elizabethan and her government, Life in Elizabethan times)	 Students will be able to: Describe in a chronological narrative the key events of Elizabeth's reign with a secure understanding of cause, development and consequence Examine the content and provenance of an interpretation and determine if it is convincing by utilising contextual knowledge 	 Students will know The history of Elizabeth I from disinherited child to Virgin Queen of England The core features of Elizabethan government such as the role of the privy council, patronage and parliament The difficulties Elizabeth faced as a female ruler such as the succession crisis Arguments for Elizabethan England being a "Golden Age" (e.g. theatre, rise of the gentry) Arguments against Elizabethan England being a "Golden Age" (e.g. the growing poverty crisis, involvement in the Transatlantic Slave Trade) 	Quizzes (in class and homework) Extended writing and practice questions (classwork and homework) Mid-Unit Assessment on Elizabethan theatre
Autumn 2	Elizabethan England (Troubles at home and abroad, site study)	 Students will be able to: Explain the importance of events/individuals/issues in Elizabethan England by considering wider social, political and economic consequences Analyse our historical site study and evaluate the factors at play in the function and structure of the site or the individuals and events attributed to the historical site Describe Elizabeth I's reign in detail with consideration towards governance, society and crises that she resolved 	 Students will know The religious matters which threatened Elizabeth I's reign (e.g. Catholic plots, Elizabeth's excommunication by Pope Pius V, Puritan challenges) The political matters which threatened Elizabeth I's reign (e.g. Mary, Queen of Scots) England's conflict with Spain and how naval warfare was conducted in the 16th Century The historic environment of Elizabethan England with one specific site study (specific site changes annually) 	Quizzes (in class and homework) Extended writing and practice questions (classwork and homework) End-Unit assessment on Elizabeth's early life, revisiting of Conflict and Tension exam questions. November PPE

		Students will be able to:	Students will know	Quizzes (in class and homework)
Spring 1	Migration, Empires and the People (Conquered and conquerors, Looking west)	 Explain significance over time by comparing the contemporary impact of an event/individual/migrant group with how they later affected history Analyse historical sources by examining their content and provenance thoroughly and explaining their utility to a historian Describe migrant groups who immigrated to or emigrated from Britain from the late 8th Century to the late 18th Century 	 Key migrant groups who emigrated from or immigrated to the British Isles (e.g. Vikings, Normans, Huguenots) from the 8th Century to the 18th Century Early empires that pre-dated the British Empire (e.g. North Sea, Angevin) and the origins and developments of the British Empire from the 16th Century to the 18th Century Medieval and Early Modern conflicts and developments that had a lasting impact on British history at home and abroad (e.g. the Norman conquest, signing of the Magna Carta, the loss of the Hundred Years' War) 	Extended writing and practice questions (classwork and homework) Mid-Unit Assessment on Vikings Mid-Unit Assessment on privateers
Spring 2	Migration, Empires and the People (Expansion and empire, Britain in the twentieth century)	 Students will be able to: Compare the similarities between events/individuals/migrant groups in history from differing time periods Evaluate the factors which have influenced migration and empire since c793 and analyse why these factors become more or less important over time Describe migrant groups who immigrated to or emigrated from Britain from the late 18th Century to the present day 	 Students will know Key migrant groups who emigrated from or immigrated to the British Isles (e.g. Jewish migrants, the Windrush generation, Eastern European migrants) after the 18th Century The history of the British Empire after the 18th Century, including how it reached its peak during the early 20th Century with case studies such as India, South Africa and Egypt Modern conflicts and developments that had a lasting impact on British history at home and abroad (e.g. the Boer Wars, decolonisation, the Falklands War, Britain's relationship with the EU) 	Quizzes (in class and homework) Extended writing and practice questions (classwork and homework) Mid-Unit Assessment on British Empire in India and America Mid-Unit Assessment on factors for migration End-Unit assessment on Hundred Years War, factors for downfall of empire March PPE
Summer 1	Revision / GCSE Exam period	 Students will be able to: Confidently recall the knowledge from Year 10 and Year 11 GCSE in revision tasks Apply their understanding into exam style questions in order to practice before their real GCSEs this term 	 Students will know Paper 1 topics in detail (Conflict & Tension 1918- 39, Germany) for their first exam The skills required to access Paper 1 Paper 2 topics in detail (Migration, empires and the people, Elizabethan England) for their second exam The skills required to access Paper 2 	Quizzes (in class and homework) Extended writing and practice questions (classwork and homework)

Summer 2



The Sale High Mathematics department will provide lessons which are both challenging and stimulating. Our aim is for all students to enjoy mathematics and to achieve their potential. A variety of teaching styles cater for all students' learning needs and staff are always available to support all students both in and out of the classroom. There are ample opportunities for students to learn maths in a variety of enriching ways including after school clubs and entering national competitions. Students who wish to go beyond the National Curriculum will be able to Study Level 2 further mathematics.

The combination of developing fluency and mathematical understanding in tandem will enable students to use their learning accurately, efficiently and flexibly to reason mathematically and solve routine and non-routine problems, so meeting the aims of the national curriculum and GCSE AQA Mathematics specification. It will enable students to solve problems efficiently in later life and students who pursue further studies in mathematics will have sufficient breadth and depth to enable success.

Why I study Maths?

"I learn mathematics because:

- It helps me solve everyday problems,
- Improves by communication skills,
- Make me better at managing my money,
- Opens up more future career options."

Cultural capital/enrichment

Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject. In year 11 we allow any student who wishes to be considered for entry to level 2 further maths.

Half term	Торіс	Key skills I will learn in this topic	Key knowledge	Assessment opportunities (Summative and formative) Key pieces
Autumn 1	Handling data	 Students will be able to: Finding averages from a grouped frequency table Draw and interpret a cumulative frequency chart Draw and interpret a box plot Draw and interpret a scatter graphs Draw and interpret a time series line graph Draw a line of best fit Students will be able to: Simplify and evaluate negative and fractional indices Perform exact calculations in terms of pi Perform exact calculations involving fractions Convert to and from standard form. Perform operations in standard form. 	Students will know • How to identify correlation Students will know • All the rules of indices • The rules about standard form.	Key skills KS4 starter booklet End of topic reviews Base line assessment Marked piece GCSE practice papers Cose practice papers Spelling Bee GCSE practice papers Key skills KS4 starter booklet End of topic review
				GCSE practice papers

	Graphs	Students will be able to:	Students will know	Key skills KS4 starter booklet
mn 2		 Plot cubic and reciprocal graphs Plot exponential and trigonometric graphs Plot real life graphs Find the gradients and area under the curve. 	How to recognise the equation of a circle.	End of topic review GCSE practice papers
Autu	Pythagoras'	Students will be able to:	Students will know	Key skills KS4 starter booklet
4		 Find missing sides and angles on right angled triangles using Pythagoras', trigonometry or a 	 The exact trigonometric values Pythagoras' theorem Pythagoras triples. 	End of topic review
		 combination of both. Apply the trigonometry in 3d and non-right-angled triangle 	 Know the sine rule Know the cosine rule 	Marked piece
			Know the area of a triangle rule	Winter summative exam.
	Probability	 Students will be able to: Create probability space diagrams 	Students will know Set notation	Key skills KS4 starter booklet
		 Construct and use probability 	 How to find probabilities of two events. Understand conditional probability 	End of topic review
		tree diagrams.		Marked piece
oring 1				GCSE practice papers
З	Sequences	Find the nth term of a linear sequence	Students will know • Special sequences	Key skills KS4 starter booklet
		• Find the nth term of a quadratic sequence	Key sequence vocabulary	End of topic review
				GCSE practice papers

Spring 2	Units and proportionali ty	 Students will be able to: Convert between different units of length, area and volume Solve proportion using the constant of proportionality 	 Students will know Direct and inverse proportion Growth and decay Rates of change. 	Key skills KS4 starter booklet End of topic review Marked piece GCSE practice papers
Summer 1	Topic revision	Students will consolidate any topics that have been identified from the December PPE or March PPE		



Our intent is to provide Sale High students with broad scope of knowledge that challenges the way students think about the arts and teaches them to accept and embrace difference. We want our students to be confident and understand how the arts can benefit all aspects of life such as promoting confidence and good communication skills. We want to teach them that creating safe and comfortable spaces where people of all backgrounds can make, celebrate and learn together is empowering. Students study a variety of musical styles, each leading to a music making experience, performance and evaluation. Students have the opportunity to sing and make music using a variety of instruments. Students build a valuable understanding of the elements of music such as melody, pitch, tone, texture, structure, dynamics, tempo and rhythm, including music notation.

Students gain knowledge of how music is created and recorded in different contexts. They are taught to understand the value of both traditional and contemporary styles and music for different occasions leading to a greater acceptance of these differences. Students are encouraged to improvise and understand that happy mistakes can lead to great work and changes of direction are not necessarily a bad thing. They experience working solo and in groups, understanding that both have merit and it is important to listen to the ideas of others to build work together – this promotes excellent communications skills. Students are encouraged to perform and evaluate work, focusing on specific skills, reflecting to improve future work.

Why I study Music?

I study Music because:

- I can express myself creatively
- I experience music from other cultures
- It improves my memory, confidence and teamwork skills

Cultural capital/enrichment

Performance/presentation skills – awareness of the audience, self-confidence, use of practical skills (e.g. open evening, Christmas concert and annual production) Exploration of own thoughts and feelings through experiencing, discussing and performing a range of musical styles

Creative collaboration to develop working relationships outside of friendship groups

Giving/receiving constructive criticism about peer's performances

Composing and performing for audiences, considering the emotions they wish to portray

Considering the emotional support music can offer in day to day life

Extra-curricular musical groups and expressive arts company 'Platinum Stars' is an opportunity for students be part of a fun and safe environment for young people to experience creating and rehearsing theatre performance (including musical theatre) for a specific event e.g. Christmas Concert and annual production. The whole school production is a valuable experience for students to take part in a performance in a theatre, in front of a paying audience.

Half	Topic	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
term				(Summative and formative) Key
			**NB all knowledge of key skills, techniques and	pieces
			music theory are applied (and built upon) in the	
			remaining set works	
		Students will know:	Students will be able to:	Section A exam style
		The basic key vocabulary associated with all set	Understand the timeline of work and assessments	assessment
	e 2	works (MPRSTTTTDHI – Melody, Pitch, Rhythm,	over the coming months leading to GCSE	
	nce	Structure, Ionality, Iimbre, Iexture, Iempo,		AFL pack use (whiteboard, RAG
	ma	Dynamics, Harmony and Instrumentation) and use	Understand why Release is classed as fusion music	etc.) for formative assessment.
	for	it in context when speaking about the set work.	Approximiting papers	
	Per	The specific vocabulary associated with 'Release'	Applaising papers.	12 mark question papers
	2/	The specific vocabulary associated with herease.	Discuss a range of instruments and techniques linked	
	uc	How to identify folk music and say how 'Release'	with African, Irish and Electronic Dance music.	Progress toward 2 nd
	siti	utilises this.		performance
г	öd		Understand, in greater detail, the meaning of TEMPO	
NM	шо	How to identify African, Irish and Electronic	and the more advanced vocabulary and techniques	Progress toward composition 2
IUI	C/	musical styles/equipment and recognise key	used in the set works	
-UA	ase	elements of these genres in 'Release'.		
	eleg		Make an informed decision as to which brief to	
	- Re	How to identify modal music by ear and know the	choose from the four options set by EDEXCEL.	
	- - -	pentatonic scale	Continue to work toward their second performance	
	Ce	The immediates (Delegers' has an the endingers	Continue to work toward their second performance	
	fro	The impact Release has on the audience	piece.	
	A ::	STROPHIC structure and be able to talk about the	Improve the quality of their 12 mark answers for the	
	ork	links with folk music	compare/contrast section of the exam paper.	
	t K			
	Se	How to structure an effective compare/contrast		
		answer to include clear two-part comments in		
		order to cover both AO3 and AO4 criteria.		

		Students will know:	Students will be able to:	Core analysis of 'Samba'
	ntinue on	The key vocabulary associated with all set works (MPRSTTTTDHI – Melody, Pitch, Rhythm, Structure, Tonality, Timbre, Texture, Tempo,	Understand why 'Samba Em Preludio' is classed as fusion music and apply this knowledge to answer	Whiteboard questioning
	o/ Cor uestic	Dynamics, Harmony and Instrumentation) and how to use it in context when speaking about the	Listening and Appraising papers.	Section A style question paper
	reludio nark q	set work.	Understand the context of 'Samba Em Preludio'.	Mini question papers on key
1N 2	Em P n 12 r	The Jazz and Samba musical styles and how to recognise key elements of these genres in 'Samba	Recall a range of instruments and techniques linked with Jazz and Samba music.	vocabulary
NUTU	amba ocus o	Em Preludio'.	Understanding HARMONY in greater depth using	Observations of group discussion work
AI	– S / Fc	The impact 'Samba' has on the audience.	more advanced vocabulary to discuss their set works.	
	alding tion 2,	The use of voice and guitar in comparison to	Develop composition 2 from their chosen set brief.	Year 11 exam based on set works covered so far, including
	: Sp; oosi	previous pieces.	Improve their second performance piece.	dictation and 12 mark question
	Set work Com	The blues scale and associated harmonies		paper
		including altered and extended chords		Progress toward Composition 2
		How to improve composition 2 and performance 2		
		Ctudante will lucavu	Studente will be able to:	Progress toward performance 2
		Students will know:	Students will be able to:	Correction/ re-sit of winter
	of 2	How to approach each type of question, drilling	Understanding of how all set works interlink with	exam
	Completion erformance	down into specific genres and techniques and common misconceptions from previous exam	regard to skills and techniques.	Dictation exercises
(5		papers.	Answer a variety of exam-style question papers to prepare for final Listening and Appraising paper.	Whiteboard questioning
	'ks/ d p	How to create revision techniques to pull together	Complete Comparities 2	Observations of group
SPR	woi an	a selection of pieces under one umbrelia e.g. Synconation is used in five of the eight set works	Complete Composition 2	discussion work
	set on 2		Complete performance 2	
	alls	Key melody lines and rhythmic patterns for each		Composition 2
	ing	piece and be able to apply these in melodic and		
	evis corr	rhythmic dictation exercises		Performance 2
	Ř	How to progress in their individual composition		
		and performance pieces.		

	S	Students will know:	Students will be able to:	Past papers
SUMMER 1	Revision of set work	The expectations from each section of the exam paper based on past paper experience. How many marks they need to achieve on the final paper to surpass their expected grade and where their weaker areas are so plug any gaps.	Confidently approach the Listening and Appraising paper	



Intent: Students are encouraged to take greater ownership of their lessons in year 10 by allocating roles for students, including coach, manager, officials, equipment. It is an opportunity for staff and students to monitor and evaluate different aspects of physical education, including, team work, leadership, tactics and knowledge of health and fitness. Students are encouraged to discuss between them, how to create groups that would bring about fair and challenging opponents. Running PE in this way also pays attention to the social element of health, as connection with others is key. We still ensure that we encourage students to form good habits that will lead to lifelong enjoyment. However, the onus is certainly on the student to take charge of these lessons.

KS4 Activity blocks take place in 6 week blocks as opposed to the 4 week blocks in KS3. This is a reaction to student voice, which highlighted a preferred activity choice in which to focus and develop the areas mentioned above. Students take part in these activities with the key focus to provide students the opportunity to experience and enjoy activities with the hope that these will become a central part of their progression into adulthood. Activities will be more complex and demanding than in KS3 and promote an active, healthy lifestyle.

Why I study Physical Education?

- I get to experience different sports
- It supports my physical, social and mental wellbeing
- It develops my confidence, leadership and teamwork skills

Cultural capital/enrichment

- lunchtime and after school extra-curricular programme
- School teams and fixtures as part of the many Trafford Schools Leagues
- Inter-house competitions
- KS4 visit opportunity to the UA92 University
- Links to local clubs

Block 1	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
Boys				(Summative and
				formative) Key pieces

	Football	How to perform a skill in a fully	Ball mastery	Heart – their ability to lead
		competitive situation and when to select	Receiving and releasing	and make good, kind
		the skill at the right time to have maximum	Ball striking	choices. We look for the
		impact.	Creating and manipulating space	students that want to help
			Moving with the ball	others and for those that
		Linking physical activity and sport to health	Attacking	are trying to build resilience
		fitness and mental wellbeing	Defending	in challenging situations, are
			Wing play	fully equipped for each
		Benefits of a warm up and cool down	Playing through midfield	lesson and show effort and
			Press / Pass and move	commitment each lesson.
		Officiating	Switching play	
			Implementation of skills into games	Verbal feedback will be
	Basketball	Tactical awareness in differing scenarios	Passing	given lesson by lesson and
			Dribbling	students who show high
		Problem solving	Movement	standards every lesson are
			Shooting	rewarded
		Organising a game/tournament/team	Half-court defence	
			Effective movement around the key	
		Regulating themselves as a team to ensure	Implementation of skills into games	
		it is fair and equal		
		How to assess their own strengths and		
		weaknesses to ensure that practical		
		improvement can still be made.		
Block 1	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
Girls				(Summative and
				formative) Key pieces
	Netball	How to perform a skill in a fully	Footwork	Heart – their ability to lead
		competitive situation and when to select	Passing	and make good, kind
		the skill at the right time to have maximum	Dribbling	choices. We look for the
		impact.	Movement	students that want to help
			Shooting	others and for those that
			Implementation of skills into games	are trying to build resilience

	HRF OAA	Linking physical activity and sport to health fitness and mental wellbeing Benefits of a warm up and cool down Officiating Tactical awareness in differing scenarios Problem solving	CV endurance Speed Muscular Strength Muscular Endurance Flexibility Agility Power Training methods Fitness testing Heart Rate calculations	in challenging situations, are fully equipped for each lesson and show effort and commitment each lesson. Verbal feedback will be given lesson by lesson and students who show high standards every lesson are rewarded
	Football	Organising a game/tournament/team Regulating themselves as a team to ensure it is fair and equal How to assess their own strengths and weaknesses to ensure that practical improvement can still be made.		
Block 2 Boys	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities (Summative and formative) Key pieces
	Rugby	How to perform a skill in a fully competitive situation and when to select the skill at the right time to have maximum impact. Linking physical activity and sport to health fitness and mental wellbeing Benefits of a warm up and cool down	Grip and carry Ball handling Receiving and releasing Tackling Rucks Mauls Line-outs Switch/scissor pass Implementation of skills into games	Heart – their ability to lead and make good, kind choices. We look for the students that want to help others and for those that are trying to build resilience in challenging situations, are fully equipped for each lesson and show effort and commitment each lesson
	Badminton	Officiating Tactical awareness in differing scenarios	CV endurance Speed Muscular Strength Muscular Endurance	Verbal feedback will be given lesson by lesson and students who show high

	HRF	Problem solving Organising a game/tournament/team	Flexibility Agility Power	standards every lesson are rewarded
	ΟΑΑ	Regulating themselves as a team to ensure	Training methods Fitness testing	
		How to assess their own strengths and weaknesses to ensure that practical improvement can still be made.		
Block 2 Girls	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities (Summative and formative) Key pieces
	Football	How to perform a skill in a fully competitive situation and when to select the skill at the right time to have maximum impact. Linking physical activity and sport to health	Selection of shots Movement around the court Service rules Doubles and singles tactics Front and back v Side by side	Heart – their ability to lead and make good, kind choices. We look for the students that want to help others and for those that are trying to build resilience
	Lacrosse	fitness and mental wellbeing Benefits of a warm up and cool down Umpiring	Teamwork Map reading Compass work Problem solving Planning Designing routes	in challenging situations, are fully equipped for each lesson and show effort and commitment each lesson. Verbal feedback will be
	HRF	Tactical awareness in differing scenarios Problem solving Organising a game/tournament/team	Setting challenges	given lesson by lesson and students who show high standards every lesson are rewarded
Plack 2	Badminton	Regulating themselves as a team to ensure it is fair and equal How to assess their own strengths and weaknesses to ensure that practical improvement can still be made.	Kay skills I will loorn in this too is	Accorrection
DIUCK 3	Topic	Rey knowledge	Rey skills I will learn in this topic	Assessment opportunities

Boys				(Summative and
				formative) Key pieces
	Athletics	How to perform a skill in a fully	Sprinting	Heart – their ability to lead
		competitive situation and when to select	Pacing	and make good, kind
		the skill at the right time to have maximum	Jumping	choices. We look for the
		impact.	Throwing	students that want to help
			Relay technique	others and for those that
		Linking physical activity and sport to health	Competition technique	are trying to build resilience
		fitness and mental wellbeing	Timing	in challenging situations, are
	Cricket		Throwing	fully equipped for each
		Benefits of a warm up and cool down	Catching	lesson and show effort and
			Batting	commitment each lesson.
		Umpire/Timer/Scorer	Bowling	
			Ground Fielding	Verbal feedback will be
		Comparison of times/distance in relation to	Rules and Regulations	given lesson by lesson and
		different events and records	Implementation of skills into games	students who show high
	Softball		Throwing	standards every lesson are
		Tactical awareness in differing scenarios	Catching with mitt	rewarded
			Batting	
		Problem solving	Bowling	
			Ground Fielding	
		Organising a game/tournament/team	Base running and tagging	
			Rules and Regulations	
		Regulating themselves as a team to ensure	Implementation of skills into games	
		it is fair and equal		
		How to assess their own strengths and		
		weaknesses to ensure that practical		
		improvement can still be made.		
Block 3	Торіс	Key knowledge	Key skills I will learn in this topic	Assessment opportunities
Girls				(Summative and
				formative) Key pieces
	Athletics	How to perform a skill in a fully	Sprinting	Heart – their ability to lead
		competitive situation and when to select	Pacing	and make good, kind
		the skill at the right time to have maximum	Jumping	choices. We look for the
		impact.	Throwing	students that want to help
			Competition technique	others and for those that
			Relay technique	are trying to build resilience

Rounders	Linking physical activity and sport to health	Throwing	in challenging situations, are
	fitness and mental wellbeing	Catching	fully equipped for each
		Batting	lesson and show effort and
	Benefits of a warm up and cool down	Bowling	commitment each lesson.
		Ground Fielding	
	Umpire/Timer/Scorer	Rules and Regulations	Verbal feedback will be
		Implementation of skills into games	given lesson by lesson and
	Comparison of times/distance in relation to		students who show high
	different events and records		standards every lesson are
			rewarded
	Tactical awareness in differing scenarios		
	Problem solving		
	Organising a game/tournament/team		
	Regulating themselves as a team to ensure		
	it is fair and equal		
	How to assess their own strengths and		
	weaknesses to ensure that practical		
	improvement can still be made.		

This Scheme of Work is designed to work alongside the following resources which are recommended to benefit and support the delivery of the AQA GCSE Specification theory content in school. As well as the student's primary sport, the department offer a rock climbing course and deliver handball within practical sessions, to ensure all students are able to perform three sports at the required level.

PowerPoints: Created by department members

Text Book: Howitt, R. & Murray M. (2016). AQA GCSE (9-1) PE. Hodder & Stoughton. ISBN: 9781471859526

Unit & Topic	Learning &	Content	Resources	Delivery suggestions
	Assessment			
	Objectives			
3.1.3 Physical Training	AO1, AO2, AO3	3.1.3.1. The relationship between health	-PowerPoint	-Delivery of 'Components of Fitness'
	Paper 1	and fitness and the role exercise plays in	-YouTube	PowerPoint resource.
		both.		

		 Relationship between Health & Fitness. Definitions. 3.1.3.2. Components of fitness, benefits for sport and how fitness is measured and improved. Definitions of all 10 components of fitness. Linking sports and activities to components of fitness. 	-Text Book pages 42 – 49.	-Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.
AO1 Pape	1, AO2, AO3 per 1	 3.1.3.2. Fitness Testing Introducing the tests used to measure each of the 10 components of fitness. Reasons for and limitations of fitness testing. 3.1.4. Data analysis. Introducing different types of data and interpretation linked to fitness tests. 	-PowerPoint -YouTube -Text Book pages 51 – 61.	 -Delivery of 'Fitness Testing' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment. -Practical engagement with a variety of fitness tests to support data analysis and deepen k&u of fitness tests.
AO1 Pape	1, AO2, AO3 per 1	 3.1.3.3. The principles of training and their application to personal exercise/training programmes. Introduction of SPORT and FITT principles. Application of the principles of training. Types of training. Introducing the 7 different methods of training with examples. Advantages and disadvantages of the different types of training with examples. 	-PowerPoint -YouTube -Text Book pages 61 – 72.	 -Delivery of 'Principles of Training' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.
AO1 Pape	1, AO2, AO3 per 1	3.1.3.4. Optimising training and injury prevention	-PowerPoint -YouTube	-Delivery of 'Aerobic and Anaerobic Training Thresholds' PowerPoint resource.

		 -Introduction of aerobic and anaerobic respiration. -Calculating and understanding the training thresholds for aerobic and anaerobic training. -Altitude training concepts. 	-Text Book pages 67 and 73.	-Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.
	AO1, AO2, AO3 Paper 1	 3.1.3.4. Optimising training and injury prevention. Injury prevention methods Seasonal aspects – training seasons introduced and explained. 3.1.3.5 Effective use of warm ups and cool down. Warm ups and cool down methods introduced and explained. 	-PowerPoint -YouTube -Text Book pages 73 – 78.	-Delivery of 'Injury Prevention and Training Seasons' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment. -Practical tasks linked to delivery of warm ups and cool downs.
3.2.2 Socio-Cultural Influences	AO1, AO2, AO3 Paper 2	 3.2.2.1 Engagement patterns of different social groups and the factors affecting participation. Engagement patterns of different social groups affecting participation. 	-PowerPoint -YouTube -Text Book pages 102 – 112.	 -Delivery of 'Engagement and Participation' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment. -Questionnaire task to gather quantitative data for analysis.
	AO1, AO2, AO3 Paper 2	 3.2.2.3 Ethical and socio-cultural issues in physical activity and sport. -Conduct of performers. - Prohibited substances. 	-PowerPoint -YouTube -Text Book pages 126 – 134.	 -Delivery of 'Ethical Issues' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.

	A01, A02, A03	 Prohibited methods and PEDS. Advantages and disadvantages of taking PEDS. Spectator behaviour. Hooliganism – Reasons why this occurs and strategies to combat hooliganism. 	-PowerPoint	-School trip to a live sports event to experience the atmosphere.
	Paper 2	 activity and sport. Commercialisation Sponsorship and the media Positive and negative impacts of sponsorship and the media Positive and negative impacts of technology 	-YouTube -Text Book pages 113 – 125.	resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.
3.1.1 Applied Anatomy and Physiology	AO1, AO2, AO3 Paper 1	 3.1.1.1 The structure and functions of the musculoskeletal system. Bones Structure of the skeleton Functions of the skeleton Muscles of the body Joints (Synovial and freely-movable) and the different types of joints 	-PowerPoint -YouTube -Text Book pages 2 – 9.	 -Delivery of 'Structure and functions of the musculoskeletal system' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.

	-How movement occurs		
AO1, AO2, AO3 Paper 1	 3.1.1.2 The structure and functions of the cardiorespiratory system. The pathway of air Gaseous exchange Blood vessels Structure of the heart Cardia cycle, cardiac output and stroke volume Mechanics of breathing Interpretation of a spirometer trace 	-PowerPoint -YouTube -Text Book pages 10 – 18.	-Delivery of 'Structure and functions of the cardiorespiratory system' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.
AO1, AO2, AO3 Paper 1	 3.1.1.3 Anaerobic and aerobic exercise. -Aerobic and anaerobic terms and use in exercise -Oxygen consumption and EPOC -The recovery process. 3.1.1.4 Short and long term effects of exercise. -Immediate effects of exercise -Short-term effects of exercise 	-PowerPoint -YouTube -Text Book pages 19 – 26.	-Delivery of 'Aerobic, anaerobic and the effects of exercise' PowerPoint resource. -Range of strategies for 'reflection tasks', including individual, paired and group work. -Use of exam-style questions in exam conditions or as homework tasks – mark schemes to be used as peer/self-assessment.

		Long torm offects of eversion		
3.2.1 Sport Psychology	A01, A02, A03	3.2.1.1 Classification of skills	-PowerPoint	-Delivery of Classification of Skills and
	Paper 2	(basic/complex, open/closed).	-YouTube	SMART Targets' PowerPoint resource.
			-Text Book	-Range of strategies for 'reflection tasks',
		-Skills and ability	pages 79 –	including individual, paired and group work.
			85.	-Use of exam-style questions in exam
		-Classification of skills		conditions or as homework tasks – mark
				schemes to be used as neer/self-assessment
		Tupo of goals (performance or outcome)		
		- Type of goals (performance of outcome)		
		2.2.1.2 The use of goal softing and SMAPT		
		5.2.1.2 The use of goal Setting and SWART		
		targets to improve and/or optimise		
		performance.		
		-Evaluating performance and outcomes		
		-SMART targets		
3.2.1 Sport Psychology	AO1, AO2, AO3	3.2.1.3 Basic information processing.	-PowerPoint	-Delivery of 'Information Processing and
	Paper 2		-YouTube	Feedback' PowerPoint resource.
		-Basic information processing model	-Text Book	-Range of strategies for 'reflection tasks',
			pages 88 -	including individual, paired and group work.
		-Input/Output/Decision making processes	93.	-Use of exam-style questions in exam
				conditions or as homework tasks – mark
		3.2.1.4 Guidance and feedback on		schemes to be used as peer/self-assessment.
		nerformance		
performance.				
		-Types of guidance and feedback and their		
		effectiveness		
3 2 1 Sport Psychology		3 2 1 5 Montal Proparation for	-PowerPoint	-Delivery of (Mental Proparation for
S.2.1 Sport Psychology	AO1, AO2, AO3	Devfermence	VeuTubo	
	Paper 2	Performance.	-YouTube	Performance PowerPoint resource.
			-Text Book	-Range of strategies for 'reflection tasks',
		-Arousal and the Inverted-U Theory	pages 94 –	including individual, paired and group work.
			101.	

		-Optimal arousal and stress management.		-Use of exam-style questions in exam
				conditions or as homework tasks – mark
				schemes to be used as peer/self-assessment.
3.2.1 Health, Fitness	AO1, AO2, AO3	3.2.3.1 Physical, emotional, social health,	-PowerPoint	-Delivery of 'Health and Well-Being and the
and well-being	Paper 2	fitness and well-being.	-YouTube	Consequences of a Sedentary Lifestyle'
			-Text Book	PowerPoint resource.
		-Linking physical activity and exercise to	pages 135 –	-Range of strategies for 'reflection tasks',
		health, well-being and fitness.	147.	including individual, paired and group work.
		, ,		-Use of exam-style questions in exam
		3.2.3.2. Consequences of a sedentary		conditions or as homework tasks – mark
		lifestyle.		schemes to be used as peer/self-assessment
		-Sedentary lifestyles introduced		
		-Obesity and its effect on performance		
		-Somatotypes		
3 2 1 Health Eitness	A01 A02 A03	3 2 3 3 Energy Diet and Nutrition	-PowerPoint	-Delivery of 'Energy Diet and Nutrition'
and well being	AO1, AO2, AO3	5.2.5.5 Ellergy, Diet and Nutrition.	-YouTubo	PowerPoint resource
and wen-being	rapei z	Eporgyuco	Toxt Pook	Pange of strategies for (reflection tasks)
			Pages 147	including individual paired and group work
		Nutrition and balanced dist	152 hages 147 -	Lise of even style questions in even
			155. Examples of	conditions or as homowork tasks mark
			-Examples of	conditions of as normework tasks – mark
		-Nutrition and the role of carbonydrates,	nealthy vs	schemes to be used as peer/self-assessment.
		proteins, fats and vitamins/minerals	non-healthy	
			foods.	
		-Maintaining water balance (hydration)		
2 1 2 Movement		2 1 2 1 Lovor systems, avamples of their use	DoworDoint	Delivery of (Movement Analysis in Sport)
S.I.Z WOVEMENT	AUI, AUZ, AU3	in activity and the mechanical educatese	VouTubo	
analysis	Faper I	they provide in movement	Tourube	PowerPullit resource.
		they provide in movement.	-Text BOOK	-Kange of strategies for reflection tasks,
		The second state of the se	pages 27 -	including individual, paired and group work.
		-First, second and third class lever systems	41.	-Use of exam-style questions in exam
		within sports examples		conditions or as homework tasks – mark
				schemes to be used as peer/self-assessment.

-Mechanical advantages linked to the l	lever -Practical-based sessions to observe
systems	movement patterns across a range of different
	activities.
-Analysis of basic sporting movements	5
3.1.2.2 Planes and axes of movement.	
-Introduction of the different planes (fi	frontal,
transverse, sagittal) and axes (longitud	dinal,
transverse, sagittal) of movement in sp	port.



At Sale High School, our aim for Religion & Ethics is to provide students with an academically rigorous study of religious beliefs and practices, and broader ethical questions. Our curriculum empowers students to thrive in a diverse, multi-faith society by fostering a deep understanding of different religious and non-religious worldviews. Students will gain a strong disciplinary knowledge, enabling them to explore, critically, different religions and worldviews and fully analyse and evaluate different teachings and practices. This equips students to address moral and ethical dilemmas and become well-rounded individuals who are academically proficient, culturally sensitive, and morally responsible.

Sequencing:

At KS3, students will begin by exploring the fundamental philosophical inquiries such as "What is a worldview?", leading into an in-depth examination of various religious traditions, such as the Abrahamic Religions in Year 7 and the Dharmic Religions in Year 8. Students will also receive an opportunity to apply the knowledge gained in Year 7 and 8 by considering questions, such as ,"Is death the end?", "What is good and challenging about being X in Britain today?" and "What makes life valuable?". These 'big questions' encourage students to use the disciplinary knowledge that is acquired across other humanities subjects to analyse and examine contemporary topics. This will also allow students to critically explore the significance and impact that different interpretation of scripture can bring to different worldviews and religious practices.

At KS4, students can opt to complete the Religious Education GCSE course through the AQA exam board. This GCSE course builds upon students' knowledge of Islam and Christianity, whilst also continuing to develop the disciplinary knowledge to critically analyse scripture and examine the influences of religious belief on human behaviour. It also encourages students to develop skills of empathy and cultural understanding, preparing them for thoughtful and inclusive engagement in an increasingly diverse world.

I study RE because:

- > I learn more about spirituality, faith, diversity, and belief
- > I feel empowered to make a positive contribution and make informed moral choices
- > I learn more about how beliefs and values affect current issues and cultures.

Cultural capital/enrichment

RE provides opportunities for authentic interfaith dialogue, including enriching visits to the Jewish Museum, Sikh Gurdwara, Mosque and Manchester Cathedral. In Year 9 at Sale High School, our RE program fosters authentic interfaith dialogue, provides a secure space for self-exploration of beliefs, and includes a visit to Altrincham and Hale Islamic Association. Pupils are encouraged to read texts for meaning and use contextual knowledge to build a deeper understanding of the meaning being conveyed. This provides cross-curricular skills which can enhance understanding in History, Geography, Literature and Languages. Pupils use statistical skills to understand data about social attitudes and religious affiliation, this provides an opportunity for the practical application of skills from mathematics. The study of religions also provides opportunities to link with MFL and geography in enhancing pupils understanding of the culture and traditions of different places. Students also benefit from an interfaith club where they can explore other cultures and traditions and celebrate the diversity of the school.

Unit	Торіс	Key skills I will learn in this topic	Key knowledge	Assessment opportunities
	(Lens)		, ,	(Summative and formative) Key pieces
	. ,			Each unit will contain 'Spelling Bees' of
				keyword vocabulary (once across the half
				term, with revision HW opportunities)

	Christianity:	Students will be able to:	Students will know:	Exam style paper:
	Practices	- Describe the different forms of worship and	Worship and festivals	1. Multiple choice,
	(Theology &	prayer.	- Different forms of worship and their	2. State beliefs;
	Sociology)	- Critically assess the significance of different	significance: liturgical, non-liturgical and	3. Explain concepts or influences
		forms of worship and prayer.	informal, including the use of the Bible,	Explain concepts or influences (+
		 Explain the importance of sacraments. Critically evaluate the difference and 	Private worship. Praver and its significance including the	SOWA)
		significance of infant and believers baptism.	Lord's Praver, set pravers and informal	5. Evaluate the statement: "Following
		 Explain the significance of the Eucharist as a 	prayer.	a set structure of worship is the
		tool for expressing belief.	The role and meaning of the sacraments:	to God."
		- Critically evaluate the importance of pilgrimage	 The sacrament of baptism and its 	
		in a Christian's life and how that impacts faith.	significance for Christians	End of Unit Assessment:
		- Describe role of the Church in the local	- The sacrament of Holy Communion/	Exam style paper:
		- Explain the importance of mission, evangelism	The role and importance of nilgrimage and	1. Multiple choice,
_		and Church growth.	celebrations including:	2. State beliefs;
uit :		- Explain and evaluate the importance of the	 Two contrasting examples of Christian 	3. Explain concepts or influences
5		worldwide Church and the work for	pilgrimage: Lourdes and Iona	4. Explain concepts or influences (+
		reconciliation and against persecution.	- The celebrations of Christmas and Easter.	SOWA)
			The role of the church in the local and worldwide	5. Evaluate the statement: "The
			community	(Eucharist) is the most important
			- The role of the Church in the local	nart of Christian life '
			community, including food banks and street	purt of christian ije.
			- The place of mission evangelism and Church	
			growth.	
			- The importance of the worldwide Church	
			including: working for reconciliation,	
			responding to persecution	
			- The work of one of the following: Catholic	
			Agency For Overseas Development (CAFOD),	
			-	
		1		1

	Islam:	Students will be able to:	Students will know:	Exam style paper:
	Practices	- Explain each of the Five Pillars of Islam and their	Worship:	1. Multiple choice,
	(Theology &	significance, founded on teachings of the	 Five Pillars of Sunni Islam and the Ten 	2. State beliefs;
	Sociology)	Qur'an.	Obligatory Acts of Shi'a Islam	3. Explain concepts or influences
		 Explain the practice and purpose of Salah, 	 Shahadah: declaration of faith and its place 	4. Explain concepts or influences (+
		including the rituals surrounding the practice of	in Muslim practice.	SOWA)
		prayer.	 Salah and its significance: how and why 	5. Evaluate the statement:
		 Explain the significance of Ramadan and the 	Muslims pray including times, directions,	"Completing the hajj is the most
		origins, duties, benefits and exceptions of	ablution (wudu), movements (rak'ahs) and	important duty for a Muslim."
		Sawm.	recitations; salah in the home and mosque	
		- Explain the practice and importance of Zakat	and elsewhere; Friday prayer: Jumman; key	Winter Exam.
		(Knums – Shra), including the origins, duties	differences in the practice of salah in Sunni	Exam style paper (half):
		and benefits.	and shi a Islam, and different Muslim views	 Islam (practices)
		including the significance of the journey to	Duties and festivals	- Theme E
		Makkab and the actions performed	- Sawm: the role and significance of fasting	
		 Explain and critically assess the different 	during the month of Ramadan including	
		understandings of Jihad, including the origins.	origins, duties, benefits of fasting, the	
t 2		influences and conditions.	exceptions and their reasons, and the Night	
ĴηΪ		 Critically assess the significance of various 	of Power, Qur'an 96:1-5.	
_		Muslim festivals, such as Id-ul-Adha, Id-ul-Fitr	 Zakah: the role and significance of giving 	
		and Ashura, including their importance for	alms including origins, how and why it is	
		Muslims in Great Britain today.	given, benefits of receipt, Khums in Shi'a	
			Islam.	
			 Hajj: the role and significance of the 	
			pilgrimage to Makkah including origins, how	
			hajj is performed, the actions pilgrims	
			perform at sites including the Ka'aba at	
			Makkah, Mina, Arafat, Muzdalifah and their	
			significance.	
			- Jihad: different understandings of Jihad: the	
			meaning and significance of greater and	
			lesser Jinad; origins, influence and conditions	
			for the declaration of lesser Jinad.	
			- resulvais and commentor actions and their	
			today including the origins and meanings of	
			Id-ul-Adha. Id-ul-Fitr. Ashura.	
Theme C:	Students will be able to:	Students will know:	Exam style paper:	
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The Existence of	- Explain and critically assess the strengths and P	Philosophical arguments for and against the existence	1. Multiple choice.	
God and Revelation	weaknesses of the Design Argument as proof of	of God	2 State beliefs:	
(Philosophy)	the existence of God	- The Design argument including its strengths	3 Explain concepts or influences	
(Thiosophy)	- Explain and critically assess the strengths and	and weaknesses	4 Explain concepts or influences (+	
	weaknesses of the First Cause Argument as	- The First Cause argument including its	SOWA)	
	proof of the existence of God.	strengths and weaknesses.	5. Evaluate the statement: "It is	
	- Explain examples of miracles and critically	- The argument from miracles, including its	impossible to prove God exists"	
	assess their reliability as proof of the existence	strengths and weaknesses, and one example		
	of God.	of a miracle.	End of Unit Assessment:	
	- Explain Mackie's problem of evil and suffering	- Evil and suffering as an argument against the	Exam style paper:	
	and critically evaluate the impact this has on	existence of God.	1. Multiple choice,	
	belief in God.	- Arguments based on science against the	2. State beliefs;	
	- Evaluate the arguments presented by science	existence of God.	3. Explain concepts or influences	
	regarding the creation of the universe and T	The nature of the divine and revelation:	4. Explain concepts or influences (+	
	assess their impact of belief in God.	- Special revelation as a source of knowledge	SOWA)	
	- Explain and critically assess the difference	about the divine, including visions and one	5. Evaluate the statement: "The only	
	between general and special revelation, using	example of a vision.	way to know God is by being	
	examples from history and scripture to evaluate	 Enlightenment as a source of knowledge 	enlightened."	
	the influence such experiences can have on	about the divine.		
	belief in God.	- General revelation: nature and scripture as a		
	- Evaluate the concept of enlightenment as a	way of understanding the divine.		
	source of knowledge about the divine.	 Different ideas about the divine that come 		
	- Critically analyse the problems of different ideas	from these sources: omnipotent and		
	about the divine arising from these experiences;	omniscient, personal and impersonal,		
	alternative explanations for the experiences,	immanent and transcendent.		
	and the possibility that the people who claimed	- The value of general and special revelation		
	to have them were lying or mistaken.	and enlightenment as sources of knowledge		
		about the divine, including: the problems of		
		different ideas about the divine arising from		
		these experiences; alternative explanations		
		for the experiences, and the possibility that		
		the people who claimed to have them were		
		iying or mistaken.		

Unit 3

Theme B:	Students will be able to:	Students will know:	Mid-Unit Assessment:
Religion and Life	- Explain different beliefs and interpretations of	The origins and value of the universe:	Exam style paper:
(Theology &	the origins of the universe and critically	 The origins of the universe, including: 	1. Multiple choice,
Sociology)	evaluate the relationship between scientific and	religious teachings about the origins of the	2. State beliefs;
	religious views.	universe, and different interpretations of	3. Explain concepts or influences
	 Explain different beliefs about the value of the 	these; the relationship between scientific	Explain concepts or influences (+
	world and the impact of beliefs such as	views, such as the Big Bang theory, and	SOWA)
	stewardship, dominion and khalifah.	religious views.	5. Evaluate the statement:
	 Critically evaluate different religious and non- 	 The value of the world and the duty of 	"Euthanasia is never the best
	religious views about the use and abuse of the	human beings to protect it, including	option"
	environment, including the use of natural	religious teaching about stewardship,	
	resources and pollution.	dominion, responsibility, awe and wonder.	End of Unit
	 Critically evaluate different religious and non- 	 The use and abuse of the environment, 	Exam style paper (half):
	religious views about the use and abuse of	including the use of natural resources,	- Theme B
	animals, including animal experimentation and	pollution.	- Islam (beliefs)
	animals as food.	 The use and abuse of animals, including: 	
	 Explain diverse religious and non-religious 	animal experimentation, the use of animals	GCSE Exam – Summer.
	beliefs about the value of human life, including	for food.	
	the sanctity of life, and critically evaluate the	The origins and value of human life:	
	relationship between scientific and religious	 The origins of life, including: religious 	
	views.	teachings about the origins of human life,	
	 Critically assess the diverse religious and ethical 	and different interpretations of these; the	
	approaches to the topic of abortion and	relationship between scientific views, such as	
	euthanasia, including the impact and influence	evolution, and religious views.	
	such beliefs have on human life today.	 The concepts of sanctity of life and the 	
	- Critically assess the diverse religious and non-	quality of life.	
	religious beliefs about death and the afterlife,	 Abortion, including situations when the 	
	including the impact and influence such beliefs	mother's life is at risk.	
	have on human life today.	- Ethical arguments related to abortion,	
		including those based on the sanctity of life	
		and quality of life.	
		- Eutnanasia. Baliafa akasut daatkaandan aftaniif	
		- Bellets about death and an atterlife, and	
		their impact on beliefs about the value of	
		numan lire.	

Unit 4



Curriculum Map Year 11: Combined Science

Science Intent Statement - The Science department at Sale High School follows a 5 year in depth, knowledge rich Science curriculum which covers all aspects of the National Curriculum, supported by using the Exploring Science Year 7 – 9 structure. At Key Stage 4 we offer both Combined and Triple Science GCSEs through the Edexcel exam board. Practicals play a key role in developing pupil's skills, practicals will be used to develop scientific enquiry skills collecting, recording and processing data. The Science curriculum is further enriched through Science club, Sale Scholars, Physics Olympiads and Science ambassadors.

We have a high level of pupils opting to take triple Science and great progression onto Science based A levels and University courses, we believe this is due to having high expectations, strong work ethic and most importantly our desire to develop pupils love for Science and thirst for knowledge.

Why study Science?

"I learn science because:

- It develops my analytical and problem-solving skills.

- It increases my fundamental knowledge, linked to real life situations

It helps me to develop my curiosity about the world around us."

Cultural capital/enrichment: Pupils have the opportunity to attend revision sessions as per timetable (this is published fully after Christmas and includes morning, lunch time and half term revision sessions). Pupils also have the opportunity to continue their science ambassador roles from year 10 or even apply to be one.

term	Торіс	Key knowledge GCSE Combined Science – Edexcel Specification.	Key skills I will learn in this topic	Assessment opportunities (Summative and formative)
	Piology Topics 9	Dunils will learn	Dunile will loorn	Rey pieces
	Diology Topics 8	Pupils will learn.	Pupils will learn.	Baseline SU
	and 9 – Exchange	-now alveoil are adapted for gas exchange by diffusion between air in the lungs and blood in	-Appropriate experimental techniques to complete	mark
umn 1	and transport in	capillaries.	required investigations.	knowledge
	Animals,	-how the structure of the blood is related to its function.	- how to	test.
	Ecosystems and	- how the structure of the blood vessels are related to their function.	Investigate the rate of respiration in living organisms	
	material cycles	-how the structure of the heart and circulatory system is related to its function.	Investigate the relationship between organisms and their	End of topic
		-cellular respiration is an exothermic reaction which occurs continuously in living cells to	environment using field-work techniques, including	test - Biology
	Physics Topic 9 -	release energy for metabolic processes, including aerobic and anaerobic respiration.	quadrats and belt transects.	Topics 8 and
	Electricity and	-the differences between aerobic and anaerobic respiration.	Construct electrical circuits to: a investigate the	9 – Exchange,
	Circuits (Review	-the different levels of organisation from individual organisms, populations, communities, to	relationship between potential difference, current and	transport in
	content not taught	the whole ecosystem.	resistance for a resistor and a filament lamp b test series	animals,
	in Year 10 this	-how communities can be affected by abiotic and biotic factors.	and parallel circuits using resistors and filament lamps.	ecosystems
	could be the full	-the importance of interdependence in a community.		and material
	topic) Start	-how the survival of some organisms is dependent on other species, including parasitism	Literacy skills: answering extended writing GCSE questions.	cycles
		and mutualism.		-
		-the positive and negative human interactions within ecosystems and their impacts on	Maths Skills:	
		biodiversity.	Calculation of surface area : volume ratio.	Literacy task
		-the benefits of maintaining local and global biodiversity, including the conservation of	Calculate heart rate, stroke volume and cardiac output,	– 6 mark
		animal species and the impact of reforestation.	using the equation cardiac output = stroke volume × heart	question.
		-how different materials cycle through the abiotic and biotic components of an ecosystem.	rate	

	 -the importance of the carbon cycle, including the processes involved and the role of microorganisms as decomposers. -the importance of the water cycle, including the processes involved and the production of potable water in areas of drought including desalination. -how nitrates are made available for plant uptake, including the use of fertilisers, crop rotation and the role of bacteria in the nitrogen cycle. Pupils will also learn: -the structure of the atom. -how to draw and use electric circuit diagrams including circuit symbols. -the differences between series and parallel circuits. -that a voltmeter is connected in parallel with a component to measure the potential difference. -that potential difference (voltage) is the energy transferred per unit charge passed and hence that the volt is a joule per coulomb. -that an ammeter is connected in series with a component to measure the current, in amp, in the component. -that an electric current is the rate of flow of charge and the current in metals is a flow of electrons. -how changing the resistance in a circuit changes the current and how this can be achieved using a variable resistor. -if two resistors are in series, the net resistance is increased, whereas with two in parallel the net resistance is decreased. -how current varies with potential difference for the following devices and how this relates to resistance of a light-dependent resistor. - how the resistance of a light-dependent resistor. - how the resistance of a light-dependent resistor. - how the resistance of a light-dependent resistor. - ways of reducing unwanted energy transfer through low resistance wires . - that electrical energy is dissipated as thermal energy to the surroundings when an electrical current (ac.) is movement of charge in one direction and that alternating current (a.c.) is the energy transferred per second	how to determine the number of organisms in a given area using raw data from field-work techniques, including quadrats and belt transects. Recall and use the equation: energy transferred (joule, J) = charge moved (coulomb, C) × potential difference (volt, V) $E = Q \times V$. Recall and use the equation: charge (coulomb, C) = current (ampere, A) × time (second, s) Q = I ×t Recall and use the equation: potential difference (volt, V) = current (ampere, A) × resistance (ohm, Ω) V = I × R. Calculate the currents, potential differences and resistances in series circuits Recall and use the equation energy transferred (joule, J) = current (ampere, A) × potential difference (volt, V) × time (second, s) E = I ×V ×t. Recall and use the equations: power (watt, W) = energy transferred (joule, J) ÷ time taken (second, s). electrical power (watt, W) = current (ampere, A) × potential difference (volt, V) P = I ×V electrical power (watt, W) = current squared (ampere2, A2) × resistance (ohm, Ω) P = I × R 2.	Describe the carbon cycle. Spelling bees – Biology topic 9.
Physics Topic 9	with electricity (As above for physics topic 9) Pupils will also learn:	Pupils will learn:	Winter exams
Circuits - Finish	- that unlike magnetic poles attract and like magnetic poles repel.	required investigations.	(biology,

umn 2

Physics Topics	- the uses of permanent and temporary magnetic materials and the difference between	-the use of plotting compasses to show the shape and	Chemistry
10,11, 12 and 13 -	permanent and induced magnets.	direction of the field of a magnet and the Earth's magnetic	and physics)
Magnetism, motor	-the shape and direction of the magnetic field around bar magnets and for a uniform field.	field.	
effect,	- how the behaviour of a magnetic compass is related to evidence that the core of the Earth	-to link a simple kinetic theory model to explain the	
electromagnetic	must be magnetic.	different states of matter (solids, liquids and gases) in	
induction, Particle	-that a current can create a magnetic field and that the strength of the field depends on the	terms of the movement and arrangement of particles	Literacy task
model and forces	size of the current and the distance from the long straight conductor.	Investigate factors affecting the generation of electric	– Describe
and matter.	-how inside a solenoid the fields from individual coils add together to form a very strong	current by induction.	the structure
	almost uniform field along the centre of the solenoid and cancel to give a weaker field	Investigate the temperature and volume relationship for a	of a plug and
	outside the solenoid.	gas.	the safety
	-that a current carrying conductor placed near a magnet experiences a force and that an	Investigate the stretching of rubber bands.	features of a
	equal and opposite force acts on the magnet.	Investigate the properties of water by determining the	plug.
	-that magnetic forces are due to interactions between magnetic fields.	specific heat capacity of water and obtaining a	
	- the factors that affect the size and direction of an induced potential difference.	temperature-time graph for melting ice.	Spelling bees
	-how an alternating current in one circuit can induce a current in another circuit in a	Investigate the densities of solid and liquids.	– Paper 1 key
	transformer.	Investigate the extension and work done when applying	words
	-that a transformer can change the size of an alternating voltage.	forces to a spring.	
	-why, in the national grid, electrical energy is transferred at high voltages from power		
	stations, and then transferred at lower voltages in each locality for domestic uses and	Literacy skills: answering extended writing GCSE questions.	
	explain where and why step-up and step-down transformers are used in the transmission of		
	electricity in the national grid.	Maths Skills: Recall and use Fleming's left-hand rule.	
		Recall and use the equations:force on a conductor at	
	Pupils will also learn:	right angles to a magnetic field carrying a current (newton,	
	-the differences in density between the different states of matter in terms of the	N) = magnetic flux density (tesla, T or newton per ampere	
	arrangements of the atoms or molecules.	metre, N/A m) × current (ampere, A) × length (metre, m) F	
	-that when substances melt, freeze, evaporate, boil, condense or sublimate mass is	$= B \times I \times I$	
	conserved.	*potential difference across primary coil (volt, V) × current	
	-how heating a system will change the energy stored within the system and raise its	in primary coil (ampere, A) = potential difference across	
	temperature or produce changes of state.	secondary coil (volt, V) × current in secondary coil (ampere,	
	-definitions for the terms specific heat capacity and specific latent heat and explain the	A) P P S S V × I =V × I	
	differences between them.	*density (kilogram per cubic metre, kg/m3) = mass	
	 -ways of reducing unwanted energy transfer through thermal insulation 	(kilogram, kg) ÷ volume (cubic metre, m3) V m ρ	
	-the pressure of a gas in terms of the motion of its particle.	*change in thermal energy (joule, J) = mass (kilogram, kg) ×	
	-the effect of changing the temperature of a gas on the velocity of its particles and hence on	specific heat capacity (joule per kilogram degree Celsius,	
	the pressure produced by a fixed mass of gas at constant volume.	J/kg °C) × change in temperature (degree Celsius, °C) $\Delta Q =$	
	-the term absolute zero, -273 °C, in terms of the lack of movement of particles.	m×c×Δθ	
	-that stretching, bending or compressing an object requires more than one force.	*thermal energy for a change of state (joule , J) = mass	
	-the difference between elastic and inelastic distortion.	(kilogram, kg) × specific latent heat (joule per kilogram,	
	-the difference between linear and non-linear relationships between force and extension.	$J/kg) Q = m \times L$	
		Convert between the kelvin and Celsius scale.	
		force exerted on a spring (newton, N) = spring constant	
		(newton per metre, N/m) × extension (metre, m) $F = k \times x$	
		*energy transferred in stretching (Joule, J) = 0.5 × spring	
		constant (newton per metre, N/m) × (extension (metre,	
		m))2 2 2 1 E = × k × x	

ig 1	Chemistry Topics	Pupils will learn:	Pupils will learn:	End of topic
	13, 14 and 15 -	-why some elements can be classified as alkali metals (group 1), halogens (group 7) or noble	-appropriate experimental techniques to complete	test –
	Groups of the	gases (group 0), based on their position in the periodic table.	required investigations.	Chemistry
	periodic table,	-that alkali metals are soft and have relatively low melting points.	How to	13,14 and 15
	rates of reaction,	-the reactions of lithium, sodium and potassium with water and how to explain the pattern	Investigate displacement reactions of halogens reacting	- Groups of
	heat energy	of reactivity in terms of electronic configuration.	with halide ions in solution.	the periodic
	changes	-the colours and physical states of chlorine, bromine and iodine at room temperature.	Investigate the effect of potential catalysts on the rate of	table, rates
		-the pattern in the physical properties of the halogens.	decomposition of hydrogen peroxide.	and energy
	Chemistry 16 and	- the chemical test for chlorine.	Measure temperature changes linking to type of reaction.	changes.
	17 – Fuels and the	-the reactions of the halogens, with metals to form metal halides and that the halogens,	Investigate the fractional distillation of synthetic crude oil	
	atmosphere.	chlorine, bromine and iodine, form hydrogen halides which dissolve in water to form acidic	and the ease of ignition and viscosity of the fractions.	End of topic
		solutions.	Investigate the products produced from the complete	test -
		- the relative reactivity of the halogens; chlorine, bromine and iodine, as shown by their	combustion of a hydrocarbon.	Chemistry 16
		displacement reactions with halide ions in aqueous solution	Investigate the cracking of paraffin oil.	and 17 – Fuels
		- why these displacement reactions are redox reactions in terms of gain and loss of	Draw and label reaction profiles for endothermic and	and the
		electrons, identifying which of the substances are oxidised and which are reduced.	exothermic reactions, identifying activation energy	atmosphere.
		-the relative reactivity of the halogens in terms of electronic configurations.	Investigate the proportion of oxygen in the atmosphere.	
		-why the noble gases are chemically inert and how the uses of noble gases depend on their	Investigate the presence of water vapour and carbon	Literacy task
		inertness, low density and/or non-flammability.	dioxide in the atmosphere.	– Describe
		-the pattern in the physical properties of some noble gases and use this pattern to predict	Investigate the volume of air used up and products formed	how oxygen
		the physical properties of other noble gases.	when candles are burned.	increased
		-how reactions occur when particles collide and that rates of reaction are increased when	Carry out the test for oxygen.	into the
		the frequency and/or energy of collisions is increased.	Investigate the effects of changing the conditions of a	atmosphere
		-the effects on rates of reaction of changes in temperature, concentration, surface area to	reaction on the rates of chemical reactions by: a measuring	and carbon
		volume ratio of a solid and pressure	the production of a gas (in the reaction between	dioxide
		-a catalyst is a substance that speeds up the rate of a reaction without altering the products	hydrochloric acid and marble chips) b observing a colour	increased.
		of the reaction, being itself unchanged chemically and in mass at the end of the reaction.	change (in the reaction between sodium thiosulfate and	
		- that enzymes are biological catalysts and that enzymes are used in the production of	nydrochioric acid)	Spelling bees
		alconolic drinks.	the chemical test for oxygen.	– paper 2 key
		- an exothermic change of reaction is one in which heat energy is given out.	Literacy skills, answering outended writing CCCE substitutes	words
		-an endothermic change of reaction is one in which heat energy is taken in	Literacy skins. answering extended writing GCSE questions.	
		-that the breaking of bonus is endothermic and the making of bonus is exothermic	Mathe Skille: Drawing and interpreting appropriate graphe	
		in forming bonds in the products than is required in breaking bonds in the reactants or	from data to determine rate of reaction. Determining	
		and othermic if less heat energy is released in forming heads in the products than is required	gradients of graphs as a measure of rate of change to	
		in breaking bonds in the	determine rate. Extract and interpret information from	
			charts grands and tables. Calculate the energy change in a	
		Pupils will also learn:	reaction given the energies of honds (in kl mol-1)	
		-that hydrocarbons are compounds that contain carbon and hydrogen only		
		-crude oil is a complex mixture of hydrocarbons and that crude oil is an important source for		
		fuels and feedstock for the petrochemical industry.		
		-the separation of crude oil into simpler, more useful mixtures is by the process of		
		fractional distillation, including the names and uses of the fractions		
		-how hydrocarbons in different fractions differ from each other and are mostly members of		
		the alkane homologous series.		
	L		1	I

		 -an nomologous series is a series or compounds which have the same general formula, differ by CH2 in molecular formulae from neighbouring compounds, show a gradual variation in physical properties and have similar chemical properties. -the complete combustion of hydrocarbon fuels is a reaction in which carbon dioxide and water are produced and energy is given out. -the incomplete combustion of hydrocarbons can produce carbon and carbon monoxide and the problems associated with carbon monoxide and soot. -how impurities in some hydrocarbon fuels result in the production of sulfur dioxide and some of the problems associated with acid rain caused when sulfur dioxide dissolves in rain water. -when fuels are burned in engines, oxygen and nitrogen can react together at high temperatures to produce oxides of nitrogen, which are pollutants. -the advantages and disadvantages of using hydrogen, rather than petrol, as a fuel in cars -why cracking involves the breaking down of larger, saturated hydrocarbon molecules (alkanes) into smaller, more useful ones, some of which are unsaturated (alkenes) and why cracking is necessary -that the gases produced by volcanic activity formed the Earth's early atmosphere. -that the Earth's early atmosphere was thought to contain little or no oxygen, large amounts of carbon dioxide, water vapour and small amounts of other gases. how the earth cooled and condensation of water vapour formed oceans. -how the growth of primitive plants used carbon dioxide and released oxygen by photosynthesis and consequently the amount of oxygen in the atmosphere gradually increased. how the at radiated from the Earth, subsequently releasing energy which keeps the Earth warm: known as the greenhouse effect. -the evidence for human activity causing climate change and the potential effects on the climate with increased levels of carbon dioxide and methane generated by human activity, including burning fos	
ng 2	Revision and booster sessions for GCSE Exams.	 Pupils will be using lesson time to review previously studied content. This will be based around revision lessons, past paper exams and walking talking exams. Exams start in May and continue throughout June. Pupils will sit 6 exams Each assessment is 1 hour and 10 minutes, the assessment is out of 60 marks and the assessment consists of six questions. Students must answer all questions. The paper will include multiple-choice, short answer guestions, calculations and extended open-response 	PPE exams – 3 x papers (biology, Chemistry and physics) Spelling bees – paper 1 and 2 key words.
		assessment consists of six questions. Students must answer all questions. The paper will include multiple-choice, short answer questions, calculations and extended open-response questions.	– paper 1 2 key wo

		Available at foundation tier and higher tier. Students must complete all assessments for this qualification in the same tier. The foundation tier paper will target grades 1–5. The higher tier paper will target grades 4–9.	
		Paper 1: Biology Content assessed Topic 1 – Key concepts in biology, Topic 2 – Cells and control, Topic 3 – Genetics, Topic 4 – Natural selection and genetic modification, Topic 5 – Health, disease and the development of medicines	
		Paper 2: Biology 2 Content assessed Topic 1 – Key concepts in biology, Topic 6 – Plant structures and their functions, Topic 7 – Animal coordination, control and homeostasis, Topic 8 – Exchange and transport in animals, Topic 9 – Ecosystems and material cycles	
		Paper 3: Chemistry 1 Content assessed Topic 1 – Key concepts in chemistry, Topic 2 – States of matter and mixtures, Topic 3 – Chemical changes, Topic 4 – Extracting metals and equilibria.	
		Paper 4: Chemistry 2 Content assessed Topic 1 – Key concepts in chemistry, Topic 6 – Groups in the periodic table, Topic 7 – Rates of reaction and energy changes, Topic 8 – Fuels and Earth science.	
		Paper 5: Physics 1 Content assessed Topic 1 – Key concepts of physics, Topic 2 – Motion and forces, Topic 3 – Conservation of energy, Topic 4 – Waves, Topic 5 – Light and the electromagnetic spectrum, Topic 6 – Radioactivity. Paper 6: Physics 2 Content assessed Topic 1 – Key concepts of physics, Topic 8 – Energy -	
		Forces doing work, Topic 9 – Forces and their effects, Topic 10 – Electricity and circuits, Topic 12 – Magnetism and the motor effect, Topic 13 – Electromagnetic induction, Topic 14 – Particle model, Topic 15 – Forces and matter.	
mer	Revision and booster sessions for GCSE Exams	As above	In GCSE Exams. Pupils will sit 6 exams (2 Biology, 2 Chemistry and 2 Physics) each exam will be 1 hour 10mins long.
mer	Revision and booster sessions	As above	As above
	TOP GUSE Exams		



Curriculum Map Year 11 Triple Science (GCSE Biology, Chemistry and Physics)

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 Practicals play a key role in developing pupil's skills, practicals will be used to develop scientific enquiry skills collecting, recording and processing data. The Science curriculum is further enriched through Science club, Sale Scholars, Physics Olympiads and Science ambassadors.

 We have a high level of pupils opting to take triple Science and great progression onto Science based A levels and University courses, we believe this is due to having high expectations, strong work ethic and most importantly our desire to develop pupils love for Science and thirst for knowledge.

 Why study Science?
 "I learn science because:

 It increases my fundamental knowledge, linked to real life situations
 It helps me to develop my curiosity about the world around us."

 Cultural capital/enrichment - : Pupils have the opportunity to attend revision sessions as per timetable (this is published fully after Christmas and includes morning, lunch time and half term revision sessions). Pupils also have the opportunity to continue their science ambassador roles from year 10 or even apply to be one.

 Please note that pupils will study all three sciences across the 2 years. At the end of the two years pupils will complete 6 exams (2 x Biology, 2 x Chemistry and 2 x Physics) This

Curriculum map covers what they will learn for GCSE Biology, Chemistry and Physics in Year 10.

alf	Topic	Key knowledge	Key skills I will learn in this topic	Assessment
rm				opportunities
				(Summative
				and formative)
				Key pieces
	Biology Topic 8	Biology	Pupils will learn:	Baseline 30
	 Exchange and 	Pupils will learn:	-Appropriate experimental techniques to complete	mark
utumn	transport in	-how alveoli are adapted for gas exchange by diffusion between air in the lungs and blood in	required investigations.	knowledge test
	animals	capillaries.	- how to	Biology,
		-how the structure of the blood is related to its function.	Investigate the rate of respiration in living organisms	Chemistry and
	Biology Topic 9	- how the structure of the blood vessels are related to their function.	Investigate the relationship between organisms and	Physics.
	 Ecosystems 	-how the structure of the heart and circulatory system is related to its function.	their environment using field-work techniques,	
	and material	-cellular respiration is an exothermic reaction which occurs continuously in living cells to release	including quadrats and belt transects.	Literacy task –
	cycles	energy for metabolic processes, including aerobic and anaerobic respiration.		6 mark question
		-the differences between aerobic and anaerobic respiration.	Investigate the proportion of oxygen in the	based on
	Chemistry	-the different levels of organisation from individual organisms, populations, communities, to the	atmosphere.	electricity
	Topics 17 -19	whole ecosystem.	Investigate the presence of water vapour and carbon	review.
	Groups in the	-how communities can be affected by abiotic and biotic factors.	dioxide in the atmosphere.	
	periodic table,	-the importance of interdependence in a community.	Investigate the volume of air used up and products	End of topic
	rates of	-how some energy is transferred to less useful forms at each trophic level and that this affects	formed when candles are burned.	test -Biology
	reaction, heat	the number of organisms at each trophic level, limits the length of a food chain and determines	Carry out the test for oxygen.	Topic 8
	energy and	the shape of a pyramid of biomass in an ecosystem.	Investigate the effects of changing the conditions of	
	chemical	-how the survival of some organisms is dependent on other species, including parasitism and	a reaction on the rates of chemical reactions by: a	
	changes.	mutualism.	measuring the production of a gas (in the reaction	

(Review	-the positive and pegative human interactions within ecosystems and their impacts on	between hydrochloric acid and marble chins) b	End of Tonic
content not	high high high the hard and high the hard the hard the high the hi	observing a colour change (in the reaction between	test - Biology
taught in Voor	the benefits of maintaining local and global biodiversity including the conservation of animal	sodium thiosulfate and hydrochloric acid)	tonic 9
10)	che beneficio of maintaining local and global biodiversity, including the conservation of allitid	the chemical test for ovugen	topic 5.
10)	species and the impact of returns addute the abjects and biotic components of an accoustor		Spolling Poor
Chamistry	-now unrecent materials cycle through the about and blott components of an ecosystem.	Literacy skills, answering extended writing CCCC	Chomictry
Chemistry	-the importance of the carbon cycle, including the processes involved and the role of	Literacy skills: answering extended writing GCSE	Chemistry
	microorganisms as decomposers.	questions.	TOPICS 17,18
– Fuels, earth	-the importance of the water cycle, including the processes involved and the production of		and 19 -
and	potable water in areas of drought including desalination.	Maths Skills:	Groups, rates of
atmospheric	-how nitrates are made available for plant uptake, including the use of fertilisers, crop rotation	Calculate the rate of diffusion using Fick's law:	reaction and
science. Start	and the role of bacteria in the nitrogen cycle.	surface area concentration difference diffusion	heat energy
	-the use of indicator species as evidence to assess the level of pollution	thickness of membrane rate of $\times \alpha$ 1a 3a, 3d	changes
	-the effects of temperature, water content and oxygen availability on the rate of decomposition	Calculation of surface area : volume ratio.	
	in food preservation.	Calculate heart rate, stroke volume and cardiac	End of topic
	-the effects of temperature, water content and oxygen availability on the rate of decomposition	output, using the equation cardiac output = stroke	test - Chemistry
	in composting.	volume × heart rate	Topics 20 & 21
		how to determine the number of organisms in a	– Fuels, earth
	Chemistry	given area using raw data from field-work	and
	Groups is continued from Year 10 Triple – please see year 10 for full details.	techniques, including quadrats and belt transects.	atmospheric
	Pupils will learn:	Calculate rate changes in the decay of biological	science.
	-that hydrocarbons are compounds that contain carbon and hydrogen only.	material	
	-crude oil is a complex mixture of hydrocarbons and that crude oil is an important source for	Calculate the efficiency of energy transfers between	Literacy task – 6
	fuels and feedstock for the petrochemical industry.	trophic levels and percentage calculations of biomass	mark question
	-the separation of crude oil into simpler, more useful mixtures is by the process of fractional	Drawing and interpreting appropriate graphs from	based on
	distillation, including the names and uses of the fractions.	data to determine rate of reaction. Determining	electrolysis
	-how hydrocarbons in different fractions differ from each other and are mostly members of the	gradients of graphs as a measure of rate of change to	review
	alkane homologous series.	determine rate. Extract and interpret information	
	-an homologous series is a series of compounds which have the same general formula, differ by	from charts, graphs and tables. Calculate the energy	
	CH2 in molecular formulae from neighbouring compounds, show a gradual variation in physical	change in a reaction given the energies of bonds (in	
	properties and have similar chemical properties.	kJ mol–1)	
	-the complete combustion of hydrocarbon fuels is a reaction in which carbon dioxide and water	,	
	are produced and energy is given out.		
	-the incomplete combustion of hydrocarbons can produce carbon and carbon monoxide and the		
	problems associated with carbon monoxide and soot.		
	-how impurities in some hydrocarbon fuels result in the production of sulfur dioxide and some of		
	the problems associated with acid rain caused when sulfur dioxide dissolves in rain water.		
	-when fuels are burned in engines, oxygen and nitrogen can react together at high temperatures		
	to produce oxides of nitrogen, which are pollutants.		
	-the advantages and disadvantages of using hydrogen, rather than petrol, as a fuel in cars		
	-why cracking involves the breaking down of larger saturated hydrocarbon molecules (alkanes)		
	into smaller, more useful ones, some of which are unsaturated (alkenes) and why cracking is		
	nee smaller, more useful ones, some or which are unsaturated (alkenes) and why clacking is		
	-that the gases produced by volcanic activity formed the Farth's early atmosphere		
	that the Earth's early atmosphere was thought to contain little or no ovygen large amounts of		
	carbon diovide, water vanour and small amounts of other gases		
	carbon dioxide, water vapour and sinali amounts of other gases.		

		how the earth cooled and condensation of water vapour formed oceans. -how the amount of carbon dioxide in the atmosphere was decreased when carbon dioxide dissolved as the oceans formed.		
		-how the growth of primitive plants used carbon dioxide and released oxygen by photosynthesis and consequently the amount of oxygen in the atmosphere gradually increased		
		- how various gases in the atmosphere, including carbon dioxide, methane and water vapour.		
		absorb heat radiated from the Earth, subsequently releasing energy which keeps the Earth		
		warm: known as the greenhouse effect.		
		-the evidence for human activity causing climate change and the potential effects on the climate		
		with increased levels of carbon dioxide and methane generated by human activity, including		
		burning fossil fuels and livestock farming.		
		-the composition of today's atmosphere.		
utumn	Chemistry	Please see details above for chemistry topics 20 and 21.	Pupils will learn:	Winter exam –
	Topics 20 & 21	Chemistry	-Appropriate experimental techniques to complete	paper 1 Biology,
	– Fuels, earth	Pupils will learn:	required investigations.	Chemistry and
	and	-the formulae and structures of the alkanes, methane, ethane, propane and butane, and draw	- now to	Physics.
		the difference between seturated and unceturated molecules	Core Practical: Investigate the temperature rice	Litoracy tack
	Science. Fillisii	- the formulae of molecules of the alkenes, ethene, propens, butene, and draw the structures of	produced in a known mass of water by the	key question
	Chemistry	these molecules showing all covalent honds	compustion of the alcohols ethanol propanol	from exam
	Topics 22, 23 &	-the addition reaction of ethene with bromine.	butanol and pentanol	paper1.
	24 -	-how bromine water is used to distinguish between alkanes and alkenes.	Investigate the forces of attraction and repulsion	popo. =:
	Hydrocarbons,	- the complete and incomplete combustion reactions of alkene and alkanes.	between charged objects.	Spelling bees –
	alcohols,	-what a polymer and a monomer are and examples of polymerisation reactions.	The use of plotting compasses to show the shape	paper 1 key
	carboxylic acids	- how addition and condensation polymerisation reactions take place, including products	and direction of the field of a magnet and the Earth's	words
	and polymer.	formed.	magnetic field.	
		- examples of polymers linked to their properties and uses.		End of topic
	Physics Topics	-problems associated with polymers.		test - Chemistry
	8, 9, 10 and 11 -	-that DNA is a polymer made from four different monomers called nucleotide, starch is a	Literacy skills: answering extended writing GCSE	Topics 22, 23 &
	Energy, forces	polymer based on sugars and proteins are polymers based on amino acids	questions.	24 -
	and their	-the formulae of molecules of the alcohols, methanol, ethanol, propanol and butanol and draw		Hydrocarbons,
	effects and	the structures of these molecules, showing all covalent bonds.	Maths Skills: Recall and use Fleming's left-hand rule.	alcohols,
	Electricity and	-the functional group in alcohols is –OH and that alcohols can be dehydrated to form alkenes.	Recall and use the equations:force on a conductor at	carboxylic acids
	circuits and	-the formulae of molecules of the carboxylic acids, methanoic, ethanoic, propanoic and butanoic	right angles to a magnetic field carrying a current	and polymer.
	Static electricity	the functional group in carboxylic acids is COOH and that solutions of carboxylic acids have	(newton, N) = magnetic nux density (tesia, 1 or newton per ampere metre, N/(A m) x surrent	
	- FILIISII	typical acidic properties	$(ampere \Lambda) \times (angth (metre m) E - B \times 1 \times 1)$	
		-ethanol can be oxidised to produce ethanoic acid	*potential difference across primary coil (volt V) x	
	Physics Topic	-members of a given homologous series have similar reactions because their molecules contain	current in primary coil (ampere, A) = potential	
	12 & 13	the same functional group.	difference across secondary coil (volt, V) × current in	
	Magnetism, motor effect	-the production of ethanol by fermentation of carbohydrates in aqueous solution, using yeast to provide enzymes.	secondary coil (ampere, A) P P S S V × I = V × I	
	and	-how to obtain a concentrated solution of ethanol by fractional distillation of the fermentation mixture.		

	electromagnetic			
	induction	Physics Topics 8, 9 10,11 please see Year 10 (any content not covered in Year 10 will be		
		covered or reviewed)		
		Physics Topic 12 and 13		
		Pupils will learn:		
		- that unlike magnetic poles attract and like magnetic poles repel.		
		- the uses of permanent and temporary magnetic materials and the difference between		
		permanent and induced magnets.		
		-the shape and direction of the magnetic field around bar magnets and for a uniform field.		
		- how the behaviour of a magnetic compass is related to evidence that the core of the Earth must		
		be magnetic.		
		-that a current can create a magnetic field and that the strength of the field depends on the size		
		of the current and the distance from the long straight conductor.		
		-how inside a solenoid the fields from individual coils add together to form a very strong almost		
		uniform field along the centre of the solenoid and cancel to give a weaker field outside the		
		solenoid.		
		-that a current carrying conductor placed near a magnet experiences a force and that an equal		
		and opposite force acts on the magnet.		
		-that magnetic forces are due to interactions between magnetic fields.		
		- the factors that affect the size and direction of an induced potential difference.		
		-how an alternating current in one circuit can induce a current in another circuit in a transformer.		
		-that a transformer can change the size of an alternating voltage.		
		-why, in the national grid, electrical energy is transferred at high voltages from power stations,		
		and then transferred at lower voltages in each locality for domestic uses and explain where and		
		why step-up and step-down transformers are used in the transmission of electricity in the		
		national grid.		
		- the action of the microphone in converting the pressure variations in sound waves into		
		variations in current in electrical circuits, and the reverse effect as used in loudspeakers and		
		headphones.		
ring 1	Chemistry	Chemistry	Pupils will learn:	Knowledge test
	Topics 25 & 26 -	Pupils will learn:	-Appropriate experimental techniques to complete	– 30 marks –
	Quantitative	-why the test for any ion must be unique.	required investigations.	Biology,
	and ion tests,	-flame tests to identify ions in solids.	- how to	Chemistry and
	plus properties	-tests to identify ions in solids or solution, aluminium ion, Al3+, calcium ion, Ca2+, copper ion,	Core Practical: Identify the ions in unknown salts,	Physics.
	of matter and	Cu2+, iron(II) ion, Fe2+, iron(III) ion, Fe3+ and ammonium ion, NH4 + using sodium hydroxide	using the tests for the specified cations and anions	
	nanoparticles.	solution.		End of topic
		-the chemical test for ammonia.	To link a simple kinetic theory model to explain the	test Physics
	Physics Topic	-tests to identify ions in solids or solutions, carbonate ion, CO3 2–, using dilute acid and	different states of matter (solids, liquids and gases)	12&13
	14 and 15	identifying the carbon dioxide evolved, sulfate ion, SO4 2–, using dilute hydrochloric acid and	In terms of the movement and arrangement of	iviagnetism,
	Particle model,	barium chloride solution, chloride ion, CI–, bromide ion, Br–, iodide ion, I–, using dilute nitric acid	particles	motor effect
	forces and	and silver nitrate solution.	Investigate factors affecting the generation of	and
	matter	-that instrumental methods of analysis are available and that these may improve sensitivity,	electric current by induction.	electromagnetic
		accuracy and speed of tests	Investigate the temperature and volume relationship	induction.
			tor a gas.	

	the sector is the structure of a fight scheme of	
-how the properties of nanoparticulate materials are related to their uses including surface area	Investigate the stretching of rubber bands.	Literacy task – 6
to volume ratio of the particles they contain, including sunscreens.	Investigate the properties of water by determining	mark key
-the possible risks associated with some nanoparticulate materials.	the specific heat capacity of water and obtaining a	question from
-the physical properties of glass and clay ceramics, polymers, composites and metals.	temperature-time graph for melting ice.	exam paper 2
-why the properties of a material make it suitable for a given use and use data to select materials	Investigate the densities of solid and liquids.	
appropriate for specific uses	Investigate the extension and work done when	Spelling bees –
	applying forces to a spring.	paper 1 and 2
Physics		key words.
Pupils will learn:	Literacy skills: answering extended writing GCSE	
the differences in density between the different states of matter in terms of the arrangements of	questions	End of topic
the atoms or molecules.		test 25 and 26
-that when substances melt, freeze, evaporate, boil, condense or sublimate mass is conserved.	Maths Skills:	Quantitative,
-how heating a system will change the energy stored within the system and raise its temperature	Evaluate data from a flame photometer: a to	ions tests plus
or produce changes of state.	determine the concentration of ions in dilute	properties of
-definitions for the terms specific heat capacity and specific latent heat and explain the	solution using a calibration curve b to identify metal	matter and
differences between them.	ions by comparing the data with reference data.	nano particles.
-ways of reducing unwanted energy transfer through thermal insulation	Compare the size of nanoparticles with the sizes of	
-the pressure of a gas in terms of the motion of its particle.	atoms and molecules.	PPE exam –
-the effect of changing the temperature of a gas on the velocity of its particles and hence on the	density (kilogram per cubic metre, kg/m3) = mass	paper 2
pressure produced by a fixed mass of gas at constant volume.	(kilogram, kg) ÷ volume (cubic metre, m3) V m ρ	Biology.
-the term absolute zero. -273 °C, in terms of the lack of movement of particles.	*change in thermal energy (joule, J) = mass	Chemistry and
the pressure of a gas produces a net force at right angles to any surface and changing the volume	(kilogram, kg) × specific heat capacity (joule per	Physics. Physics
of a gas effects the rate at which its particles collide with the walls of its container.	kilogram degree Celsius, I/kg °C) x change in	,
-that stretching bending or compressing an object requires more than one force	temperature (degree Celsius °C) $\Lambda O = mxcx \Lambda \theta$	Walking talking
-the difference between elastic and inelastic distortion	*thermal energy for a change of state (ioule $ $) =	exams to he
the difference between linear and non-linear relationshins between force and extension	mass (kilogram kg) x specific latent heat (joule per	completes by
-why atmospheric pressure varies with height above the Earth's surface	kilogram $1/kg$) $\Omega = mx$	nunils
the pressure in a fluid is due to the fluid and atmospheric pressure and the pressure in fluids	Convert between the kelvin and Celsius scale	themselves
causes a force normal to any surface	*force everted on a spring (newton, N) - spring	themselves.
how process in fluids increases with denth and density	constant (newton per metro N/m) x extension	
why an object in a fluid is subject to an unwards force (unthrust) and that unthrust is equal to	$(motro, m) = -k \times x$	
-willy all object in a huld is subject to all upwards force (uptillust) and that uptillust is equal to	(inelie, iii) $F = K \times X$	
the weight of fluid displaced.	chergy transferred in stretching (joule, J) = 0.5 ×	
-now the factors (upthrust, weight, density of huld) inhuence whether an object will hoat of slik.	spring constant (newton per metre, N/m) ×	
	(extension (metre, m))2 2 2 1 E = $\times K \times X$	
	Use the equation: $P1 \times V1 = P2 \times V2$ to calculate	
	pressure of volume for gases of fixed mass at	
	constant temperature.	
	use the equation: pressure (pascal, Pa) = force	
	normal to surface (newton, N) ÷ area of surface	
	(square metre, m2)	
	Use the equation to calculate the magnitude of the	
	pressure in liquids and calculate the differences in	
	pressure at different depths in a liquid: pressure due	
	to a column of liquid (pascal, Pa) = height of column	
	(metre, m) × density of liquid (kilogram per cubic	

			metre, kg/m3) × gravitational field strength (newton	
			per kilogram, N/kg) P = h× ρ × g	
ring 2	Revision and	Pupils will be using lesson time to review previously studied content. This will be based around		GCSE Exams.
	booster	revision lessons, past paper exams and walking talking exams.		
	sessions for			
	GCSE Exams	Exams start in May and continue throughout June.		
	Dovision and			
mmer	hoostor	Biology Paper 1. The assessment is 1 hour and 45 minutes. Tonic 1 – Key concents in hieldry, tonic 2 –		GCSE Exams.
	sessions for	Paper 1. The assessment is 1 hour and 45 minutes. Topic $1 - Rey concepts in biology, topic 2 - Cells and control topic 3 - Genetics topic 4 - Natural selection and genetic modification and$		
	GCSE Exams	tonic 5 – Health disease and the development of medicines		
	Gest Exams	topic 5 Treatin, discuse and the development of medicines		
		Paper 2. The assessment is 1 hour and 45 minutes. Topic 1 – Key concepts in biology, topic 6 –		
		Plant structures and their functions, topic 7 – Animal coordination, control and homeostasis,		
		topic 8 – Exchange and transport in animals and topic 9 – Ecosystems and material cycles		
		Chemistry		
		Paper 1. The assessment is 1 hour and 45 minutes. Topic 1 – Key concepts in chemistry, topic 2 –		
		States of matter and mixtures, topic 3 – Chemical changes, topic 4 – Extracting metals and		
		equilibria and topic 5 – Separate chemistry 1.		
		Paper 2. The assessment is 1 hour and 45 minutes. Topic 1 – Key concepts in chemistry, topic 6 –		
		Groups in the periodic table, topic 7 – Rates of reaction and energy changes, topic 8 – Fuels and		
		Earth science and Topic 9 – Separate chemistry 2		
		Physics		
		Paper 1. The assessment is 1 hour and 45 minutes. Topic 1 – Key concepts of physics, topic 2 –		
		Motion and forces, topic 3 – Conservation of energy, topic 4 – Waves, topic 5 – Light and the		
		electromagnetic spectrum, topic 6 – Radioactivity and topic 7 – Astronomy.		
		Paper 2. The assessment is 1 hour and 45 minutes. Topic 1 – Key concepts of physics, topic 8 –		
		Energy - Forces doing work, topic 9 – Forces and their effects, topic 10 – Electricity and circuits,		
		topic 11 – Static electricity, topic 12 – Magnetism and the motor effect, topic 13 –		
		Electromagnetic induction, topic 14 – Particle model and topic 15 – Forces and matter.		
mmer	Revision and	As above.		GCSE Exams.
	booster			
	sessions for			
	GCSE Exams			