

# CURRICULUM MAP 2021/22 - TOPICS COVERED EACH HALF TERM

## KS3 - YEAR 9

<b>ART</b>	<p><b>Pop Art.</b>  <i>Observing and recording. Exploring media, recording ideas and creating a personal response</i>                      Understanding the Pop art movement and learning about Popular culture and fashion iconography across the ages.                      Observational drawing of everyday objects, developed into a series of experimental media studies covering digital art, fine art and textiles techniques. Focus on pop artists and their variety of styles and techniques and make a developed study based on one artist.                      Developing textiles skills by producing a response to Lucy Sparrow through applique and hand sewing techniques.                      Portrait work, working from second hand sources/taking their own photographs to then be developed into a series of media experiments including Photoshop digital manipulation, printmaking such as stencil printing.                      Building and recapping skills in using a variety of media such as watercolours, acrylic paint, drawing inks, pen and pencil.                      Carrying out their own personal research based on the themes of pop art to influence their final outcome.                      Designing their own final outcome through a series of drawing and developmental work.                      Students will create mini outcomes throughout the project in response to artist and their styles and techniques.                      Creating a final outcome using the skills and techniques that they have developed but having some level of choice as to which techniques they decide to pursue.</p>			<p><b>The World Today.</b>  <i>Exploring themes and artist ideas, refining skills, creating work that is personal to them.</i>                      Observational drawings of objects related to current social themes, explore issues and media. Introducing art that has meaning.                      Discussion and research exploring issues in contemporary society with reference to a range of artists.                      Research into artists covering a variety of different themes, media and approaches.                      Developing Photography skills through shooting and working on creating edits using Photoshop – linked to artists work such as Barbara Kruger.                      Focus on observational drawing, looking at drawing hands as an expressive part of the human form.                      Developing media skills through experimenting with different techniques such as drawing with biro and using alternative backgrounds (links to Mark Powell – contemporary British artist).                      Gather research, explore a contemporary theme that is important to them.                      Understanding stencil printing through exploring the techniques by looking at artists such as Banksy and Frank Sheppard-Fairey.                      Designing their own final outcome based on the skills they have built up over the past 3 years. Focusing their ideas on one theme or issue that is personal to them.                      Creating a personal and meaningful response which explores a theme of the students own choice in the style of the artists which they have been studying.</p>		
<b>COMPUTING</b>	<p><b>Python Programming</b>                      Apply the programming constructs of sequence, selection and iteration in Python                      Create programs independently to allow computers to solve problems.</p>	<p><b>Media: Animations</b>                      Create 3D animations through object manipulation and tweaking and adjusting lighting and camera angles                      Select and create a range of media including text, images, sounds, and video.</p>	<p><b>Data science</b>                      Use data to investigate problems and make real-world changes                      Able to analyse data and meeting the needs of known users.</p>	<p><b>Representations: Going Audio-visual</b>                      Represent images and sounds using binary digits                      Understand how instructions are stored and executed within a computer system in the form of binary digits.</p>	<p><b>Cybersecurity</b>                      Identify how users and organisations can protect themselves from cyberattacks                      Understand the risks when using technology and how to protect against them.</p>	<p><b>Physical computing</b>                      Able to use sensing and controlling with the micro: bit                      Create programs independently to allow computers to solve problems</p>
<b>PERFORMING ARTS</b>	<p><b>Choreographing using a prop</b></p>	<p><b>Understanding the history and value of Musical</b></p>	<p><b>Immersive Theatre: Warden X</b></p>	<p><b>Documentary Theatre: Missing Dan Nolan</b></p>	<p><b>Extended Blood Brothers Unit</b>                      At the end of KS3 students will bring all the skills they have learnt at The Castle School together in an</p>	

	Students will be inspired to create movement using ordinary objects; cups, blazers, newspapers and then build on the choreographic skills they started to build in Year 7 and 8	<b>Theatre: High School Musical</b> Students will continue to focus on the Musical Theatre style combining both drama and dance. This time with a focus on the popularity of the genre over time.	In this theatre project students will be immersed in the drama set in a 1960s borstal for naughty children. During this scheme students will look at Dorothy Heathcoat's revolutionary immersive teaching.	Students will focus on the style of documentary theatre and they explore this real story that has been transformed into a Theatre in Education play written by Mark Wheeler. Students will explore on and off text.	extended project of the award-winning musical Blood Brothers.
<b>DT</b>	<b>Swatch watch</b> Creating a client profile and taking account the views of users Analysing data linked to the human body Investigate new and emerging technology Make a Swatch watch including the use of CAD/CAM	<b>USB</b> Creating 3d models from card Analysing existing products Analysing night lights Creation of design ideas Creation of working drawing using 2d design Assembling USB Evaluation and testing		<b>Pendant Project</b> Casting and shaping pendant Creating and shaping a stand for pendant to be hung on. Research existing products Creating an Isometric drawing Working out costings for manufacture Evaluation and testing	
<b>ENGLISH</b>	<b>Purple Hibiscus, and Viewpoints and Perspective</b> Nigerian politics since independence in 1960; the impact of colonialism as well as themes closely linked to adolescent issues like growing up, identity and family relationships; more challenging themes: domestic violence and religious oppression. Issues of identity, representation and oppression (race, religion, ethnicity, gender, sex); the language of oppression (exploitation, cultural imperialism, violence, powerlessness)  Reading comprehension (fiction and non-fiction), analysing the effect of	<b>The American Story</b> Timeline of US history focused on events that impacted definitions of The American Dream Terminology language analysis PETAR structure Disciplinary  Students will be continuously redefining, evaluating and interpreting definitions of The American Dream in relation to key events and texts.	<b>Identity Poetry</b> Common noun, abstract noun, adjectives, pronoun, determiner, alliteration, sibilance, simile, metaphor, personification, repetition, stanza, senses, onomatopoeia, imagery, extended metaphor, enjambment, rhyme, superlative adjectives, culture, semantic field, extended metaphor, form, synecdoche, extended metaphors, anadiplosis, anaphora.  Identity, race, gender, influence, conformity, perspective, ideology, analysis, explanation, develop, compare.	<b>Macbeth</b> Shakespeare's life and the influence of King James on this play.  Analysing the presentation of character and theme through language choice, theatrical form (dramatic irony etc.) To explore links between context and character.	<b>Gothic</b> Gothic conventions/tradition, theme of growing up (parent/child relationships, friendship/bullying), vocabulary of thoughts and feelings, descriptive language devices, structural features.  Reading comprehension (fiction), analysing the effect of language devices, using language creatively.

	language devices and rhetorical devices, analysing the effect of structural features, writing creatively, writing analytically.				
<b>FOOD</b>	<b>Food Science Bake-Off Challenge</b> Raising agents – the different types. How raising agents work in dishes. The science of raising agents and gases produced Chemical, mechanical and biological agents Bread-making Cake-making Puff pastry Quality control in food products Timings Reading recipes Presentation skill Disciplinary Knowledge: Understanding further science behind recipes. Creativity and adaption of recipes to suit different tastes, diets and allergies. Competitive response to challenges.		<b>Food Choice &amp; Creativity</b> Food choice Budgeting Eatwell guide recap Vegan/ vegetarian Environmental issues Different diets – health conditions Allergens Heat transfer Food provenance Nutritional analysis Styling food Disciplinary literacy: Debating veganism Research and presenting health condition to class Naming burger and labelling box Time plans for Gateaux assessment Sensory words		
<b>GEOGRAPHY</b>	<b>Is the Earth running out of Natural Resources?</b> To know the different kinds of natural resources To know how rocks form To know how soil benefits people To understand how people use water To know the benefits and challenges of oil use To know what resources are used to generate electricity To know the difference between climate change and global warming To know the impacts of climate change To know the impacts of climate change on the UK To know how climate change can be managed	<b>Is the geography of Russia a curse or a benefit?</b> What is Russia like? What is the climate of Russia? What biomes exist in Russia? Where do people live in Russia and why? What is life like in the Arctic? What impact does the physical geography have on Russia? Why is Europe reliant on gas from Russia? Why does Russia want to control Crimea? What does the future hold for Russia? Is the Geography of Russia a curse or benefit? Contextual knowledge of location (Russia).	<b>Could palm oil lead to the end of the Orangutan?</b> What is biodiversity? Why do tropical rainforests have such high levels of biodiversity? Why are tropical rainforests important? Why are tropical rainforests under threat? Is the rainforest important for the people of Indonesia? So, what does palm oil have to do with me? To what extent does Indonesia benefit from palm oil? How can we help save the Orangutan? Should we ban palm oil? Contextual knowledge of location. Cost/benefit analysis and judgement.	<b>Why is Iceland a popular tourist destination?</b> What are the tectonic features of Iceland? Where do people live in Iceland? What is it like to live in Iceland? Why do people live in Iceland? Why do people visit Iceland? Will tourism ruin Iceland? What happened in Iceland in 2010? Was the Eyjafjallajökull eruption a local or international disaster? How effective is Iceland at managing tectonic hazards? Contextual knowledge of location. Cost/benefit analysis and judgement. Graphical literacy. Scientific methodologies (Earth Sciences)	

	To know what we can do about climate change Process of completing a geographical enquiry. Cost/benefit analysis and judgement. Graphical literacy. Evaluation of risk. Application of tier 3 terminology. Scientific methodologies (Climate Science)	Cost/benefit analysis and judgement. Graphical literacy. Political geography.	Graphical literacy. Application of tier 3 terminology.			
<b>HISTORY</b>	<p><b>Causes for World War One.</b> Assassination Black Hand Gang Trigger event Alliance Militarism Naval Warfare Nationalism Imperialism Schlieffen Plan</p> <p>Weighing up different evidence and reaching a Judgement. To evaluate the causes that build up to a key date.</p>	<p><b>How fair an interpretation of Haig is the programme Blackadder?</b></p> <p>Trench Warfare War of Attrition Stalemate No Mans Land Conditions of the = Butcher/Hero Interpretations of War Casualties Interpretation of source work. Explaining inference and comparison of different views. Interpretation/Evidence</p>	<p><b>What led to the rise in extremism in 20<sup>th</sup> century Europe?</b></p> <p>Treaty of Versailles The Big 3 Stab in the back theory. Weimar Republic Economic Crash Communism Vs Fascism Left Wing/Right Wing Democracy Students to Develop contextual evidence. Students to develop significance of events. Developing Causes</p>	<p><b>What was the turning point for the allies during WW2?</b></p> <p>Dunkirk Retreat Battle of Britain The Blitz Pearl Harbour Triple Axis D-Day Dresden Napalm Atomic Bomb VE Day Chronological knowledge and understanding of significant events and understanding of the implications of the events in the war.</p>	<p><b>What was the impact of those affected by a dictatorship throughout the Holocaust?</b></p> <p>Life under occupation Resistors Conspirators Ghettos Death By Bullets Eintzangruppen Genocide Holocaust Auschwitz Death Marches Liberation To understand the impact of war and impact of the Final solution policy on Jews/To evaluate the consequences of Nazi policies and how it had an impact on Europe.</p>	<p><b>How 'swinging' were the Swinging Sixties?</b></p> <p>Communism (Rise/Significant event) Black Rights. Fashion and Music Sexual revolution Swinging 60s Space race Vietnam War Cold War Permissive Society</p>
<b>MATHS</b>	<p><b>Equations &amp; inequalities</b> Review forming &amp; solving linear equations. Understand inequality notation and represent inequalities on a number line.</p>	<p><b>Calculation</b> Solve problems involving adding, subtracting, multiplying &amp; dividing whole numbers &amp; decimals.</p>	<p><b>Calculate with fractions</b> Solve problems involving calculation with fractions and mixed numbers.</p>	<p><b>Formulae</b> Review substitution into expressions &amp; formulae. Rearrange formulae.</p>	<p><b>Fractions, decimals and %</b> Convert between fractions and recurring decimals.</p>	<p><b>Fractions and %</b> Find the original amount given a fraction or % or after a fractional or % change. Solve problems involving simple &amp; compound interest. Solve problems involving</p>

						repeated % change in other contexts.
<b>Angles</b> Solve angle problems involving a variety of angle rules. Calculate angles in polygons.	<b>Ratio</b> Solve problems involving ratio. Combine ratios.	<b>Manipulate calculations</b> Manipulate calculations to find answers to further calculations.	<b>Linear &amp; non-linear graphs</b> Understand the link between coordinates on a line and its equation. Review plotting linear graphs. Given the equation of a line find its gradient and y-intercept. Find the equation of a line. Find the midpoint of a line segment. Solve simultaneous equations graphically. Plot quadratic graphs & find the turning point.	<b>Proportion</b> Solve problems involving direct proportional reasoning. Plot & use conversion graphs & direct proportion graphs.	<b>Indices</b> Simplify more complex expressions using the laws of indices, including negative powers. Find the reciprocal of a number. Evaluate negative powers.	
<b>Primes, HCF, LCM</b> Use prime factors to find the HCF or LCM of numbers or expressions. Solve contextual problems involving HCF & LCM.	<b>Bearings, maps &amp; scale drawings</b> Use ratio in maps & scale drawing to convert between measures on maps/drawings and actual lengths. Measure & draw bearings to locate a point.	<b>Standard form</b> Solve problems involving standard form numbers.	<b>Quadratics</b> Expand & simplify double brackets. Factorise quadratic expressions into double bracket	<b>Upper &amp; lower bounds</b> Find the upper & lower bounds & error interval of a rounded value. Calculate with bounds.	<b>Circles</b> Solve problems involving circumference & area of circles.	
<b>Sequences</b> Recognise different types of sequence. Use the nth term to find further terms. Find the nth term of a linear sequence, including ascending, descending & fractional.	<b>Pythagoras Theorem</b> Know & use Pythagoras theorem in 2D shapes.	<b>Trigonometry</b> Use trigonometry to find missing sides & angles in right-angled triangles.	<b>Measures of average &amp; range</b> Find the mode, range & mean from an ungrouped & grouped frequency table and bar charts. Solve problems involving missing values & reverse mean	<b>Data Presentation</b> Solve more complex problems involving graphs. Draw & interpret boxplots	<b>Transformations</b> Reflect a shape given the equation of the mirror line. Enlarge a shape from a given centre.	
<b>Probability</b> Review probabilities from Venn diagrams, two-way tables, frequency trees & bar charts. Use relative frequency as an estimate	<b>Volume &amp; surface area</b> Identify the properties of 3D shapes. Calculate the volume & surface area of cubes, cuboids & other prisms including cylinders.	<b>Measures</b> Convert metric units of area & volume. Convert time between hrs & mins and decimals time. Calculate compound	<b>Similarity &amp; congruence</b> Identify similar & congruent shapes. Prove shapes are similar & find missing lengths & angles.	<b>Construction &amp; loci</b> Use constructions to solve loci problems. Draw & interpret 2D & 3D isometric drawings. Draw & recognise nets & elevations of 3D shapes		

	of probability. Use the product rule to calculate the number of possible outcomes.		measures. Draw & interpret kinematics			
<b>MATHS</b>	Skills quiz at the end of each unit.					
<b>MFL</b> 3 hours a week for students doing one language. An additional 2 hours a week for students who are studying 2 languages.						
<b>French</b>	Healthy Living	Healthy Living	Celebrations	My Future	Music	The Environment
<b>German</b>	Holidays	Holidays	Media	Fashion	My House / Town	The German Speaking World
<b>Mandarin</b>	All About Me	All About Me	Where I Live	Where I Live	Shopping	Shopping
<b>Spanish</b>	Holidays	Holidays	School	The World of Work and Careers	Food & Diet	Health & Sports
<b>MUSIC</b>	<p><b>Film Music</b> PERFORMING James Bond leitmotif, sequence using computer software.</p> <p>APPRAISING film music leitmotifs and orchestration. Identifying features of film genre's through music analysis (DRSMITH)</p> <p>COMPOSING a character leitmotif.</p> <p>PRODUCTION techniques used in sequencing software: hit point</p>	<p><b>Musicals</b> Ensemble PERFORMANCE of a musical song.</p> <p>APPRAISING musical styles and songs from different kinds of musicals.</p> <p>Singing musicals in 3 parts</p>	<p><b>Minimalism</b> PERFORMING Tubular Bells 4-part minimalist piece into GarageBand/sequencing software</p> <p>COMPOSITION of minimalist piece to a video, creating their own cell ideas and chordal accompaniment.</p> <p>APPRAISING examples of minimalist music throughout history. Development of music theory, chords, cells,</p>	<p><b>Blues and Jazz</b> PERFORMANCE of a blues piece, based upon the 12-bar blues, walking bass including developing improvisation techniques.</p> <p>APPRAISING blues music throughout its history. Its origins, how it was developed and understand how blues and jazz has influenced popular music including fusion.</p> <p>Writing lyrics and singing the blues</p>	<p><b>Sampling and Fusion</b> COMPOSING sampling. Using techniques learnt from exploring different methods and how they are integrated into other songs.</p> <p>APPRAISING looking into music from around the world. Picking out stereotypical features of the style to create a music fusion composition. Afrobeat, North Indian Classical Music, Bhangra, Tango, Celtic</p>	<p><b>Ensemble Performance</b> Group PERFORMANCE and rehearsal of a piece of music in a style best suited to the individual.</p> <p>Singing pop song chorus in 3 parts</p>

	sound effects, panning, automation, quantising.		diatonic E scale based off Steve Reich.  PRODUCTION techniques used in sequencing software: cells, automation, quantising.		PRODUCTION techniques used in sequencing software: sampling, automation, quantising.	
<b>PE</b>	<p><b>Invasion</b> Technical Knowledge Applying passing, movement with/without ball and attacking and defending skills</p> <p>Game Knowledge Applying rules and attacking and defensive strategies with better decision making in small/large sized games and knowledge of tactics.</p> <p>Students will also develop Social, Emotional Physical and Leadership skills throughout the curriculum.</p>	<p><b>Net and Wall</b> Technical Knowledge Applying Forehand, backhand, serves and volley shots.</p> <p>Game Knowledge Applying knowledge of rules and attacking and defensive principles on a half-court game to full court game and knowledge of tactics.</p> <p>Students will also develop Social, Emotional Physical and Leadership skills throughout the curriculum.</p>	<p><b>Health and Wellbeing</b> Technical Knowledge Applying the understanding and knowledge of Exercise and applying it to individual sports and continuing to improve all-round Cardiovascular and Strength based fitness and general wellbeing.</p> <p>Students will also develop Social, Emotional Physical and Leadership skills throughout the curriculum.</p>	<p><b>Aesthetic</b> All students will be showed the safety control measures, spotting, getting on and off the trampoline. Students will work on basic jumping, controlled stopping and landings and tuck, straddle and pike jumps. They will develop various landing positions (Seat, front and back drops) Apply twisting to the above skills. Progression onto front and back somersaults.</p> <p>Performance Knowledge To execute the skills aesthetically well, demonstrating good control and tension as part of the performance. Students will look to execute these skills achieving good height in</p>	<p><b>Striking and Fielding</b> Technical Knowledge Applying bowling, batting, fielding and wicketkeeping (Throwing and Catching) skills.</p> <p>Game Knowledge Applying knowledge of rules and application of tactics in small/larger sized games.</p> <p>Students will also develop Social, Emotional Physical and Leadership skills throughout the curriculum.</p>	<p><b>Athletics</b> Technical Knowledge Applying a Range of Running, Jumping and Throwing Techniques.</p> <p>Performance Knowledge Applying knowledge of rules and tactics/strategies for individual events.</p> <p>Students will also develop Social, Emotional Physical and Leadership skills throughout the curriculum.</p>

				the bounce and consistency in the landing on the trampoline.  Students will also develop Social, Emotional Physical and Leadership skills throughout the curriculum.		
<b>PSHE</b>	Diversity  Assertiveness		Rights & Responsibilities Risk Addiction Counsellor Addicts			Healthy Coping Strategies for Life  Teenage Pregnancy  Violence
<b>Health Day</b>						
<b>Specialist Team</b>	Bereavement			Extremism & terrorism		
<b>RE Short Course</b>	<b>Introduction to GCSE RE</b> Existence of God and problems with that- Does god exist? (cosmological, teleological, ontological) Proof from religious experience / morality / atheism	<b>War and Peace-</b> War, peace and religion. Covering 21 <sup>st</sup> century conflict and the religious reaction to war.		<b>Christian Beliefs</b> The trinity, the incarnation, atonement, crucifixion, resurrection, salvation, heaven, hell.		<b>Relationships</b> What relationships look like for religious couples, structure of families for both secular and religious traditions, roles within a family.
<b>SCIENCE (please note - different classes will do the modules in</b>	<b>Cells, tissues and organ systems</b> Neurons- structure and adaptation.	<b>Reproduction and health</b> Hormonal control of the menstrual cycle (FSH, oestrogen, LH,	<b>Variation and inheritance</b> Genetic modification. Biodiversity and gene banks.	<b>Life processes and ecology</b> Respiratory system overview.	<b>Atoms and elements</b> Models of the atom: Dalton, Thomson, Rutherford's experiment, Bohr.	<b>Chemical Reactions</b> Types of reaction: -Displacement -Oxidation/ Reduction -Combustion



<p><b>a different order. There will be a test at the end of each module)</b></p>	<p>Nervous system structure and function. Brain structure and regions. Enzymes. Examples and as a protein molecule. Conditions affecting enzyme action. Biotechnology. Conditions required and examples (Quorn/cheese production). Immune system overview. Vaccination.</p>	<p>progesterone). Role of the Corpus Luteum etc. Reproductive system overview. Artificial use of hormones in assisting conception (IVF) and contraception. Selective breeding- examples in agriculture. Artificial reproduction methods- tissue culture, cuttings Plant tissue and organ overview including xylem and phloem. Transpiration and translocation.</p>	<p>Definition of species. Hybrids. Cloning. Survival/ Extinction Darwin and Natural Selection Theory of Evolution Evidence for evolution.</p>	<p>Cardiovascular system overview. Long/ short term effects of exercise and conditions such as asthma/ bronchitis/ emphysema. Respiration- full process and importance. Structure of the digestive system. Role of each organ. Adaptation of the small intestine. Link between all the systems above in providing reactants for respiration to tissues. Active transport. Osmosis Eutrophication. Interdependence- effects of increase/ decrease of one population within a food web. Human effects on named ecosystems- deforestation, hunting, overfishing. Consequences for whole ecosystem. Bioaccumulation. Work of ecologists- case studies.</p>	<p>Isotopes Ion formation Ionic bonding Covalent bonding Metallic bonding Metal extraction Mineral Ores- definition of ore. Electrolysis Choices dependant on property: justification of uses of metals, composites, polymers.</p>	<p>-Thermal decomposition Balanced symbol equations State symbols Energy changes in reactions Endothermic/ exothermic Problems with combustion: link to climate change, particulates (soot), carbon monoxide dangers. Definition of pH Strong vs concentrated acids- Role of H<sup>+</sup> ions Calculating pH when diluting Causes and effects of acid rain</p>
	<p><b>Particles and states of matter</b> Kinetic Theory Definition and explanation of pressure Concentration- concept and (calculations)</p>	<p><b>The Earth: Rocks and atmosphere</b> Hydrocarbons- homologous series. Effects of chain length. Other organic molecules- alcohols, carboxylic acids.</p>	<p><b>Forces and motion</b> Definition, measurement and calculation of density. Newton's first law of motion- examples of equilibrium.</p>	<p><b>Waves and energy</b> Seismic waves Colours of visible light- use of prism to refract and split. Work of Herschel and Ritter</p>	<p><b>Space</b> Exploring the Universe Life cycle of a star Light year as astronomical distance</p>	<p><b>Electricity and magnetism</b> Uses and dangers of static electricity Resistance Ohm's law Paying for electricity</p>

	<p>Solubility rules Saturation</p>	<p>Climate change- mechanism, contributing factors. Forecast effects of climate change. Solutions- carbon zero/ reduction technologies. Evolution of Earth's atmosphere</p>	<p>Newton's second law- use of <math>F=m \times a</math> Newton's third law- reaction forces Vector and scalar quantities Momentum Car safety features Stopping distances</p>	<p>Electromagnetic spectrum. Description. Uses and dangers of each section Evaluation of idea of "types of energy" Energy efficiency calculations and savings- payback time. Ionising radiation Properties of alpha, beta and gamma. Radioactive decay Uses and dangers of Ionising Radiation Half-Life Background radiation and safety measures</p>		<p>Electromagnetic induction Motor effect- Flemings left hand rule, Maxwell. Magnetic field density.</p>
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