KS4 CURRICULUM MAPS

ART

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 Component 1 Food Project Fruit/veg Coloured pencil & Watercolour	Spring 1 Food Project Cake/Biscuits/Sweets Mixed media	Summer 1 Identity Project Possessions
	Autumn 2 Food project Fish/Meals Acrylic & Printing	Spring 2 Food Project Recipes/**Final pieces**	Summer 2 **Exam** and feedback Identity Project Dressing tables/Personal spaces
11	Autumn 1 Identity Project Portraits	Spring 1 Exam papers Component 2- Exam project	Summer 1 Exam Planning **Exam 10 hours**
	Autumn 2 Planning & **Mock exam**	Spring 2 Component 2- Exam project Exam planning	Summer 2 Public exams

BIOLOGY

Year	Autumn Term*	Spring Term*	Summer Term*
9	Autumn 1 **Topic 1 Cell Biology** ● cell structure ● microscopy	Spring 1 **Topic 3 Infection & Response** ● viral, bacterial, fungal and protist diseases ● human defence systems ● vaccinations	Summer 1
	Autumn 2 ● transport in and out of cells	Spring 2 ● antibiotics and painkillers ● discovery & development of disease	Summer 2 **End of year exam on topics 1 & 3**
10	Autumn 1 **Topic 2 Organisation:** ● how animal tissues, organs and organ systems are organised ● how the digestive system works ● how the circulatory system works	Spring 1 **Topic 4 Bioenergetics:** ● photosynthesis ● respiration ● metabolism	Summer 1 ● biodiversity ● human interactions on ecosystems ● revision of topics 1-4
	Autumn 2 ● non-infectious diseases, such as coronary heart disease, cancer and how lifestyle can effect these ● how plant tissues, organs and organ systems are organised ● transpiration and translocation	Spring 2 **Topic 7 Ecology:** ● adaptions, interdependence and competition within ecosystems ● sampling techniques ● cycling of carbon and water ● food production	Summer 2 **End of year exam on topics 1 – 4** ● individual target setting ● start topic 5
11	Autumn 1 **Topic 5 Homeostasis & Response:** ● the human nervous system ● human endocrine system ● negative feedback ● plant hormones	Spring 1 **Topic 6 Variation, Inheritance & Evolution:** ● sexual and asexual reproduction ● cell division & stem cells ● DNA and the genome ● inheritance	Summer 1 Revision and exams
	Autumn 2 ● Hormones in human reproduction ● Contraception ● The use of hormones to treat fertility **Year 11 mocks on topics 1-5 & 7**	Spring 2 ● variation & evolution ● selective breeding ● genetic engineering ● classification	Summer 2

BUSINESS

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 Enterprise and entrepreneurship with focus on SME's (Small & Medium Enterprises) Value added (concept and calculations) Market research, mapping and segmentation	Spring 1 Cash, cash flow and cash flow forecasting Sources of finance for business Ownership and control (Limited v unlimited liability) Franchising	Summer 1 Technology & business Legislation & business The economy & business Other external influences
	Autumn 2 The competitive environment (how firms compete) Finance and business Revenue & costs Breaking even (calculations and graphs)	Spring 2 Business location Marketing mix Business plans Stakeholders	Summer 2 Preparation for exams Practice questions (3,6,9 and 12 marker) Familiarity with exam papers if time allows we will begin Yr 11 topics here
11	Autumn 1 Growing a business (organic & inorganic growth) Financing growth Globalisation & business ethics The environment and business	Spring 1 The sales process broken down Business calculations (gross profit & margin, net profit & margin) and ARR (Average rate of return). Calculations and interpretation Business performance	Summer 1 Recruitment and training Motivation (financial and non financial)
	Autumn 2 Marketing revisited (4p's) Price, Product, Place & Promotion) Business decision making Business operations (production and stock control) Quality control Exam Prep for Mocks	Spring 2 Organisational structures (tall v flat) Communication Ways of working (freelance, permanent, temporary, remote) Flexible working	Summer 2 Exam practice and familiarity with the papers Time management in exams Revision

CHEMISTRY

Year	Autumn Term	Spring Term	Summer Term
9 (topics taught in either order)	*Combined Science classes: Atomic Structure and the Periodic Table* *Fast-track to Separate Science: Elements Compounds and Mixtures*	*All classes: Earth's Atmosphere and Resources*	
10	Autumn 1 Bonding, Structure and Properties Mid-unit assessment	Spring 1 Chemical Changes	Summer 1 Energy Changes Revision for EOY examination
	Autumn 2 Bonding, Structure and Properties End of unit assessment	Spring 2 Chemical Changes End of unit assessment	Summer 2 EOY examination Analysis
11	Autumn 1 Quantitative Chemistry	Spring 1 Rate and extent of reaction	Summer 1 Revision for GCSE
	Autumn 2 Quantitative Chemistry Mock examination	Spring 2 Organic Chemistry	Summer 2

Computer Science

Year	Autumn Term	Spring Term	Summer Term
10	Units Data storage: Number Data storage: Characters Boolean logic Computational thinking (Python)	Architecture of the CPU CPU performance Programming fundamentals (Python) Data types	Networks and topologies Python project
	Data storage: Images Data storage: Sound Data storage: Compression Designing, creating, and refining algorithms (Python)	Embedded systems Primary memory Secondary memory Additional programming techniques (Python)	Wired and wireless networks Network protocols and layers Python project
11	Threats to computers and networks Identifying and preventing vulnerabilities Operating systems Definesice design (Python)	Python challenges Searching and sorting algorithms	
	Revision and mocks Python challenges	Revision	

DESIGN TECHNOLOGY

TEXTILES			
Year	**Autumn Term***	**Spring Term***	**Summer Term***
10	Autumn 1 Mini project - Childs dress Design and making principles 9 weeks *End of topic test and project assessment	Spring 1 Mini project - Unusual bag - Mini Project - unusual materials 7 weeks Design and making principles *End of topic test and project assessment	Summer 1 Energy, materials, systems and devices
	Autumn 2 New and emerging technologies Product lifecycle, sustainability, environment *End of topic test and project assessment	Spring 2 Specialist material Knowledge - general and textiles *End of topic test and project assessment	Summer 2 End of year 10 exam NEA Introduce single design and make tasks Assessment objective 1 identify, investigate and outline design possibilities
11	Autumn 1 Controlled assessment/ NEA Assessment objective 2 *Formative assessment of AO1/ topic tests	Spring 1 Controlled assessment/NEA Assessment objective 3 *Formative assessment of AO3/topic tests	Summer 1 Revision and GCSE exam
	Autumn 2 Controlled assessment/ NEA Assessment objective 2 Mock exams *Formative assessment of AO2/ mock exams	Spring 2 Controlled assessment/NEA Assessment objective 3 Deadline for completion of NEA Pre released exam information distributed Preparation for written exam paper *Final assessment of NEA Marks standardised and submitted to exam board	Summer 2 External exams

FOOD

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 Nutrition – macro and micro nutrients Food preparation – roasted veg and pasta medley, meatballs, apple pie, vegetable stir fry, special diets/vegetarians *Formative assessment	Spring 1 Fish theory and preparation Fish cakes, fish pie, fish goujons, portioning a chicken Food science investigation – heat transfer *Formative assessment	Summer 1 Food safety and hygiene Meat cookery continued *Formative assessment *End of topic test
	Autumn 2 Food science – function of proteins Eggs-meringue nests. Baking – Swiss roll, Christmas biscuits Special diets – coeliac, gluten free brownies *Formative assessment *End of topic test	Spring 2 Meat theory and preparation Portioning a chicken and range of dishes using a variety of cooking techniques *Formative assessment	Summer 2 Mock NEA2 exam Afternoon tea *End of year written and practical exam
11	Autumn 1 Completion of NEA 1 task *Formative assessment	Spring 1 Completion of NEA 2 task Preparation of 3/4 design ideas *Formative assessment	Summer 1 Revision and GCSE exam
	Autumn 2 NEA1 Mock exam NEA 2 food preparation task *Formative assessment *Final assessment of NEA Marks standardised and submitted to exam board	Spring 2 NEA 2 – Practical Evaluation *Final assessment of NEA Marks standardised and submitted to exam board	Summer 2 External exams

GRAPHICS

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 Mini project - Childs dress Design and making principles 9 weeks *End of topic test and project assessment	Spring 1 Mini project - Unusual bag - Mini Project - unusual materials 7 weeks Design and making principles *End of topic test and project assessment	Summer 1 Energy, materials, systems and devices
	Autumn 2 New and emerging technologies Product lifecycle, sustainability, environment *End of topic test and project assessment	Spring 2 Specialist material Knowledge - general and textiles *End of topic test and project assessment	Summer 2 End of year 10 exam NEA Introduce single design and make tasks Assessment objective 1 identify, investigate and outline design possibilities
11	Autumn 1 Controlled assessment/ NEA Assessment objective 2 *Formative assessment of AO1/ topic tests	Spring 1 Controlled assessment/NEA Assessment objective 3 *Formative assessment of AO3/topic tests	Summer 1 Revision and GCSE exam
	Autumn 2 Controlled assessment/ NEA Assessment objective 2 Mock exams *Formative assessment of AO2/ mock exams	Spring 2 Controlled assessment/NEA Assessment objective 3 Deadline for completion of NEA Pre released exam information distributed Preparation for written exam paper *Final assessment of NEA Marks standardised and submitted to exam board	Summer 2 External exams

DRAMA

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 Introduction to GCSE Drama Devising skills	Spring 1 Performance Response	Summer 1 Devising Drama
	Autumn 2 Devising Drama C1 Mock exam for Devised Drama	Spring 2 Performance Response Presenting and Performing C2 Mock performance exam using set text from Component 3.	Summer 2 Devising Drama Final Exam for Component 1 Portfolio deadline.
11	Autumn 1 Performance Response	Spring 1 Presenting and Performing Set Text and Live performance review.	Summer 1 Performance Response Revision
	Autumn 2 Performance Response Set Text and Live performance review. Presenting and Performing scripts issued to examination groups.	Spring 2 Presenting and Performing C2 Exam with visiting examiner.	Summer 2 Exams.

English Language and Literature

Year	Autumn Term*	Spring Term*	Summer Term*
10	<u>Autumn 1</u> Lit - An Inspector Calls by JB Priestley	<u>Spring 1</u> Paper One, section A - Reading Fiction Paper One, section B - Writing Fiction	<u>Summer 1</u> Lit - Anthology poetry (Walking Away, Mother Any Distance, Before you were mine, Eden Rock, Follower) Lit - Unseen poetry
	<u>Autumn 2</u> Lit - Unseen poetry Lit - Anthology poetry *(Climbing my Grandfather, Love's Philosophy, When we two parted, Sonnet 29, Letters from Yorkshire)* Paper Two Section B - Letter writing	<u>Spring 2</u> Lit - Anthology poetry *(Farmer's Bride, Neutral Tones, Winter Swans, Singh Song, Porphyria's Lover)* Paper One, section B - Writing Fiction	<u>Summer 2</u> Paper Two Section B - Speech writing Oral Endorsement
11	<u>Autumn 1</u> Paper One, section A - Reading Fiction Lit - Christmas Carol by Charles Dickens or Jane Eyre by Jane Eyre	<u>Spring 1</u> Lit - Romeo and Juliet by William Shakespeare	<u>Summer 1</u> Revision
	<u>Autumn 2</u> Lit - Christmas Carol by Charles Dickens or Jane Eyre by Jane Eyre	<u>Spring 2</u> Paper One, section B - Writing Fiction	<u>Summer 2</u>

FRENCH

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 ● Course outline for pupils ● **Theme 1**: Identity & culture (Unit 1 - me, my family & friends) ● Assessment: Reading	Spring 1 ● **Theme 2**: Local, national, international & global areas of interest (Unit 5 – Home, Town, Neighbourhood & Region)	Summer 1 Revision & Preparation for Summer Exam
	Autumn 2 ● **Theme 1**: Identity & culture (Unit 2 – Technology in everyday life) ● Assessment: Speaking conversation on me, my family and friends and photocard in Technology	Spring 2 ● **Theme 3**: Current & Future Study & Employment (Unit 9&10 – My studies & Life at School & College)	Summer 2 ● **Theme 1**: Identity & culture (Unit 3 – Freetime Activities)
11	Autumn 1 ● Finish Theme 1 Identity & culture (Unit 3 – Freetime Activities) ● **Theme 2**: Local, national, international & global areas of interest (Unit 8 – Travel & Tourism)	Spring 1 ● January Mock Exams ● **Theme 3**: Current & Future Study & Employment (Unit 11&12 – Education post-16 & Jobs, career choices and ambitions)	Summer 1 Revision & Preparation for Oral Exam Revision & Preparation for Listening, Reading & Writing Exams
	Autumn 2 ● **Theme 2**: Local, national, international & global areas of interest (Unit 6 – Charity & Voluntary Work & Unit 7 – Environment & Homelessness) **Overview of key vocabulary & structures incorporated into the Revision & Preparation for Mock Exams**	Spring 2 ● **Theme 1**: Identity & culture (Unit 4 – Customs & Festivals) ● **Theme 2**: Local, national, international & global areas of interest (Unit 6.2 – Healthy & Unhealthy Living)	Summer 2 n/a

GEOGRAPHY

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 Recap on Summer Term Year 9 unit - Living World and Cold Environments** The Challenge of resource management	Spring 1 The Changing Economic World	Summer 1 Physical Landscapes of the UK Coasts
	Autumn 2 The Challenge of resource management	Spring 2 The Changing Economic World	Summer 2 Physical landscapes of the UK Rivers
11	Autumn 1 Urban Challenges	Spring 1 The Challenge of Natural Hazards	Summer 1 Preparation for external examinations
	Autumn 2 Urban Challenges	Spring 2 The Challenge of Natural Hazards	Summer 2 External GCSE Examinations

GERMAN

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 **Theme 3: Current and future study and employment** School and school subjects Describing the school day *Writing assessment – short writing task*	Spring 1 **Theme 1: Identity and culture** Relationships with family and friends Marriage/partnership *Speaking assessment*	Summer 1 **Theme 2: Local, national and international and global areas of interest** Holidays - Popular destinations The weather Discussing holiday experiences Discussing holiday plans *Revision and preparation for Summer exams*
	Autumn 2 **Theme 1: Identity and culture** Free time activities - music, cinema and television, reading, sport *Listening assessment*	Spring 2 **Theme 2: Local, national and international and global areas of interest** Travel and tourism *Reading assessment*	Summer 2 Summer exams and feedback **Theme 2: Local, national and international and global areas of interest** Home, town, neighbourhood and region
11	Autumn 1 **Theme 3: Current and future study and employment** Education post-16 Jobs, career choices and ambitions *Revision and preparation for Summer exams*	Spring 1 **Theme 2: Local, national and international and global areas of interest** Charity/voluntary work Poverty and homelessness The environment *Speaking assessment*	Summer 1 Revision and preparation for oral exam Revision and preparation for Listening, Exam practice and techniques Skills x 4 Reading and Writing exams
	Autumn 2 Revision & Preparation for Mock Exams **Theme 1: Identity and culture** Social media Mobile technology	Spring 2	Summer 2 N/A

HISTORY

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 Medicine in Britain, 1250-present	Spring 1 Henry VIII and his ministers, 1509-1540	Summer 1 Medicine and treatment in the trenches, 1914-1918
	Autumn 2 Medicine in Britain, 1250-present	Spring 2 Henry VIII and his ministers, 1509-1540	Summer 2 Exams and feedback Weimar and Nazi Germany, 1918-1939
11	Autumn 1 Weimar and Nazi Germany, 1918-1939	Spring 1 Superpower Relations and the Cold War, 1941-1991	Summer 1 Revision
	Autumn 2 Weimar and Nazi Germany, 1918-1939 Mock exams and feedback	Spring 2 Superpower Relations and the Cold War, 1941-1991	Summer 2 Public exams

ITALIAN			
Year	**Autumn Term***	**Spring Term***	**Summer Term***
10	Autumn 1 Healthy and unhealthy living and food Describing previous lifestyle habits *Assessment: reading and grammar*	Spring 1 *Assessment: timed 16-mark writing question on Healthy Lifestyle* Home, town, neighbourhood and region	Summer 1 My studies Life at school/college Comparing UK and Italian school systems Education post-16 *Exam preparation*
	Autumn 2 Healthy and unhealthy living How will you improve your lifestyle in the future? Christmas in Italy	Spring 2 *End of unit assessment* Global issues: The environment	Summer 2 *End of year exams* *Exam feedback and target setting* Describing a school trip Future plans (jobs, career choices and ambitions) Film: Io non ho paura Summer work: Customs and festivals in Italian-speaking countries/communities
11	Autumn 1 Family and relationships. Marriage/partnerships *End of unit assessment*	Spring 1 Mock exam feedback and target setting. Free-time activities: music Travel and tourism. Holidays and accommodation *End of unit assessment*	Summer 1 Exam preparation.
	Autumn 2 Technology, media and social media. Free-time activities: cinema and television. *Mock exam preparation.* *Mock exams* Cinema and television continued	Spring 2 Customs and festivals (revision and extension) The environment Social issues (gender pay gap, racism, bullying, addiction) World and global issues – poverty, homelessness. Revision of work topic	Summer 2

MATHEMATICS

SETS 1ABCD

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 • Number 1 (Decimals, Prime factorisation, rounding) • Areas and Volumes • Equations and Functions	Spring 1 • Pythagoras and Trigonometry • 3D geometry • End of Topic Assessment • Ratio, Proportion • Compound measures	Summer 1 • 3D Trigonometry • Trigonometry for non right-angled triangles • Exact values for trig ratios • Statistics inc Histograms, stratified sampling • Quadratic Equations
	Autumn 2 End of Topic Assessment • Geometry of Polygons • Circle Geometry • Number 2 (Fractions and %)	Spring 2 • Transformation Geometry • Congruency • Number 3 (Indices, Surds, Standard Form) • Manipulation of Surds End of Topic Assessment	Summer 2 Year 10 Summer Internal Examinations • Similarity (2D and 3D) • Proportion and scale factors • Direct and Inverse proportion intro • Gradient of graphs and applications • Area under graphs and applications
11	Autumn 1 • Cartesian Equations of straight lines, mid-points, tangents, normals • Probability, Venn diagrams, Tree diagrams and independence • Vectors and geometrical problems. • Error intervals and bounds Early Practice Mock Paper (Non Calculator	Spring 1 • Algebraic fractions • Non-linear simultaneous equations • Arithmetic and Geometric sequences • Rearranging equations Remock: Calculator Paper	Summer 1 Final Revision and Targeted Improvement whole class intervention work

	Autumn 2 ● Non-linear graphs and roots ● Bi-variate data ● Cumulative frequency ● Statistical comparisons of distrubutions. Exam Practice paper (Calculator) – within class teaching time. Internal Mock Examinations: (2 Papers) Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours)	Spring 2 Remock: Non Calculator Paper ● Formal direct and inverse proportion / variation ● Transformations of graphs (function notation) ● (Dimensional analysis) ● Proof techniques (algebraic, relating to number and geometrical) Remock: Calculator Paper	Summer 2 External Examination: Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours) Paper 3: Calculator (1.5 hours)

SET 2A

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 ● Triangles and Polygons ● Fractions ● Area and Perimeter ● Linear Equations ● Volume, Surface Area and Density ● Indices	Spring 1 ● Quadratic Graphs End of Topic Assessment ● Transformations ● Cumulative Frequency ● Standard Form	Summer 1 ● Probability ● Quadratic Expressions and Equations ● Inequalities ● Sine and Cosine for right angled trigonometry
	Autumn 2 End of Topic Assessment ● Expressions ● Percentages ● Distributions and averages ● Speed, distance, time	Spring 2 ● Tangent Function ● Linear equations 2 ● Locus and Constructions End of Topic Assessment ● Gradients and applications ● Rearranging Formulae	Summer 2 Year 10 Summer Internal Examinations ● Linear graphs and equations, mid-points, parallel and perpendicular lines. ● Cubic Graphs ● Simultaneous equations
	Autumn 1 ● Review and Improve Number ● Non calculator techniques ● Problem solving in Number ● Forming and solving Quadratics ● Problem solving in algebra	Spring 1 ● Angle proofs ● Congruency ● Vectors ● Sequences and problem solving with equations ● Curved graphs and rates of change	Summer 1 Final Revision and Targeted Improvement whole class intervention work

11	Early Practice Mock Paper (Non Calculator)	Remock: Calculator Paper	
	Autumn 2 ● Percentages, compound interest, multipliers ● Direct and inverse proportion ● Probability tree diagrams ● Venn diagrams ● Independence Exam Practice paper (Calculator) – within class teaching time. Internal Mock Examinations: (2 Papers) Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours)	Spring 2 Remock: Non Calculator Paper ● Error bounds ● Compound measures ● 3D problem solving ● Comparing statistical distributions ● Bi-variate data analysis ● Sampling ● Geometry review Remock: Calculator Paper	Summer 2 External Examination: Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours) Paper 3: Calculator (1.5 hours)

SET 2A AND 2B

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 ● Calculations and accuracy ● Unitary Method ● Real Life Graphs ● Fractions ● Parallel Lines ● Percentages End of Topic Assessment	Spring 1 End of Topic Assessment ● Negative Number ● Linear Graphs ● Quadratic Graphs ● Calculator usage dp/sf ● Solving linear equations ● Simplifying ratio	Summer 1 ● Indices and Roots ● Transformations and enlargement ● Scale factors (inc fractional) ● Brackets and equations ● Conversion graphs (beyond given axes) ● Revision of all Y10 work
	Autumn 2 ● Pythagoras Theorem ● Pie Charts ● Expressions ● 3D representations ● Indices ● Prime factorisation and its applications	Spring 2 End of Topic Assessment ● Bi-variate data - correlation ● 2D shapes inc circles and quadrilaterals ● Inequalities ● Arithmetic and non-linear sequences, nth terms ● Using formulae, substitution, solving.	Summer 2 Year 10 Summer Internal Examinations ● Averages, stem and leaf ● Frequency trees, frequency polygons ● Trial and Improvement ● Circle vocabulary ● Angles in Polygons ● Standard Form

11	Autumn 1 Early Practice Mock Paper (Non Calculator)	Spring 1 Remock: Calculator Paper	Summer 1 Final Revision and Targeted Improvement whole class intervention work
	Autumn 2 Exam Practice paper (Calculator) – within class teaching time. Internal Mock Examinations: (2 Papers) Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours)	Spring 2 Remock: Non Calculator Paper Remock: Calculator Paper	Summer 2 External Examination: Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours) Paper 3: Calculator (1.5 hours)

SET 3

Year	Autumn Term	Spring Term	Summer Term
10	Autumn 1 ● Symmetry ● Fractions & Decimals ● Reading Scales ● Equations ● Triangles and Quadrilaterals ● Statistics, MMMR ● Factors, multiples and primes	Spring 1 ● Analysis of grouped data ● Fractions, decimals and percentage End of Topic Assessment ● Areas of right-angled triangles, rectangles and parallelograms ● Negative numbers ● Metric Units ● Simplifying expressions	Summer 1 ● Percentage calculations ● Two-way tables and other representations for data ● Ratio and proportion ● Volume and surface area of Cuboid ● Revision for Summer exam
	Autumn 2 End of Topic Assessment ● Formulae and expressions ● 3D representations ● Non calc calculations ● Stem and Leaf diagram	Spring 2 ● Real life graphs ● Probability End of Topic Assessment ● Areas of compound shapes ● Fractions, decimals and Percentages	Summer 2 Year 10 Summer Internal Examinations ● Scatter graphs, correlation and line of best fit. ● Squares, Cubes, Roots and index notation ● Rounding dp / sf and estimation ● Solving equations ● Non-calc multiplication and division ● Arithmetic sequences and nth term

11	<u>Autumn 1</u> ● Metric and Imperial Measures ● Bearings and Scale drawing ● Calculator problem solving ● Pie Charts Early Practice Mock Paper (Non Calculator)	<u>Spring 1</u> ● Parallel lines and angles ● Proportion ● Circles: circumference and area ● Indices ● Ratio ● Enlargement Remock: Calculator Paper	<u>Summer 1</u> Final Revision and Targeted Improvement whole class intervention work
	<u>Autumn 2</u> ● Substitution, expressions and brackets ● Distance, time, speed and travel graphs ● Linear graphs ● Rotation and reflection on co-ordinate axes Exam Practice paper (Calculator) – within class teaching time. Internal Mock Examinations: (2 Papers) Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours)	<u>Spring 2</u> Remock: Non Calculator Paper ● Inequalities ● Angles in Polygons ● Problem solving – interpreting questions ● Pythagoras ● Expanding brackets. Remock: Calculator Paper	<u>Summer 2</u> External Examination: Paper 1: Non Calculator (1.5 hours) Paper 2: Calculator (1.5 hours) Paper 3: Calculator (1.5 hours)

MUSIC

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 Introduction to music theory and listening skills. **AoS5 Conventions of Pop** Introduction to the vocals and instruments of pop Rock 'n' Roll of the 1950s and 1960s **Mock solo performance to the class (15%)**	Spring 1 **AoS3 Rhythms of the World** Africa Central and South America **Mock composition task 2 (30%)**	Summer 1 **AoS2 The Concerto Through Time** Concertos from the Baroque and Classical Period **Teatime recital for parents**
	Autumn 2 **AoS5 Conventions of Pop** Rock Anthems of the 1970s and 1980s Pop Ballads of the 1970s, 1980s and 1990s Solo Artists from the 1990s to the Present Day **AoS5 End of Topic Test** **Mock composition task 1 (30%)**	Spring 2 **AoS3 Rhythms of the World** India and Punjab Eastern Mediterranean and Middle East **Mock ensemble performance to the class (15%)** **AoS3 End of Topic Test**	Summer 2 **AoS2 The Concerto Through Time** Concertos from the Romantic period **AoS2 End of Topic Test** **Mock Listening and Appraising Exam Paper (40%)**
11	Autumn 1 **AoS4 Film Music** The History of Film Music The Purpose of Film Music **Integrated Portfolio - Composition 1**	Spring 1 **Revision** **Practical Portfolio - Composition 2** **Integrated Portfolio - Performance 1 Deadline (15%)**	Summer 1 **Revision** Coursework marks published and submitted (15th May)
	Autumn 2 **AoS4 Film Music** Video Game Music Film Music Composers and their Soundtracks **Integrated Portfolio - Composition 1 Deadline (15%)** **Mock Listening and Appraising Exam Paper (40%)**	Spring 2 **Revision** **Practical Portfolio - Composition 2 Deadline (15%)** **Practical Portfolio - Ensemble Performance Deadline (15%)**	Summer 2 **Revision** **J536/05 GCSE 9-1 Listening and Appraising Exam (40%)**

PE GCSE

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 **Paper 1** ● Bones and the functions of the skeleton ● Structure of the skeletal system/functions of the skeleton ● Muscles of the body ● Antagonistic pairs ● Structure of a synovial joint ● Types of freely moveable joints that allow different movements ● How joints differ to allow types of movement ● Types of Synovial Joint & Movement at a joint ***End of topic test** **Paper 2** ● The meaning of health and fitness: physical, mental/ emotional and social health. ● The consequences of a sedentary lifestyle ● Obesity and how it may affect performance in physical activity and sport. ● Somatotypes	Spring 1 ***MOCK PAPER of Paper 1 and 2 combined** **Paper 1** ● Structure of the heart ● Cardiac Cycle ● Cardiac output and stroke volume **Paper 2** ● Classification of skills ● Goal Setting/ ● SMART targets to improve/ optimise performance ● Basic information processing	Summer 1 **Paper 1** ● Analysis of basic movements in sporting examples ● Revision ***End of topic test** **Paper 2** ● Controlling arousal techniques ● Aggression ● Personality ● Intrinsic and extrinsic motivation, including evaluation of their merits ● Revision
	Autumn 2 **Paper 1** ● The pathway of air and gaseous exchange. ● Mechanics of breathing ● Respiratory ● Interpretation of a spirometer trace ● Blood vessels **Paper 2** ● Energy use (calories) / Reasons for having a balanced diet ● The role of carbohydrates, fat, protein, vitamins and minerals / Reasons for maintaining water balance (hydration) ***End of topic test**	Spring 2 **Paper 1** ● Aerobic and anaerobic exercise ● Recovery/EPOC ● The immediate, short and long term effects of exercise ● Planes and Axes ● First, second and third class levers / Mechanical advantage **Paper 2** ● Examples of and evaluation of the types of feedback and guidance ● Arousal and the Inverted U theory ● Application of how optimal arousal has to vary in relation to the skill	Summer 2 ***June MOCK Exams Paper 1 and Paper 2** **Paper 1** ● Components of fitness ● Linking sports to the required components of fitness **NEA** ● Coursework Part 1 (Strengths and Weaknesses)

		***End of topic test**	
11	Autumn 1 Coursework – Part 2 **Paper 1** ● Reasons for and limitations of fitness testing ● Health and fitness, relationship between both ● Measuring the components of fitness and demonstrating how data is collected ● Fitness Testing In Sports Hall ● The principles of training and overload / Applications of the principles of training ● Types of training with reference to the advantages and disadvantages of using these types for different sports **Paper 2** ● Engagement patterns of different social groups ● Factors affecting participation / Barriers to participation ● Commercialisation / sponsorship and media	Spring 1 **Paper 1** ● Revision **Paper 2** ● Players conduct ● Spectator behaviour/ hooliganism ● Drugs ***End of topic test**	Summer 1 **Revision for GCSE EXAMS**
	Autumn 2 Paper 1 ● High altitude training and seasonal aspects ● Warming up and cooling down ● Calculating intensity ● Considerations to prevent injury ● Revision ***End of topic test** **Paper 2** ● Technology ● Revision	Spring 2 **Revision for GCSE EXAMS**	

PE CORE			
Year	**Autumn Term***	**Spring Term***	**Summer Term***
10	Autumn 1 Students pick which Pathway they want to participate in: ● Level 1 Sports Leader Qualification ● Individual Sports Pathway - just dance, yoga, fitness, badminton, table-tennis, trampolining, gymnastics, circuits ● Team Sports Pathway - netball, basketball, football, hockey, rounders, volleyball, handball, dodgeball, benchball	Spring 1 Continue Pathway.	Summer 1 Athletics (rotation of 3 events per double lesson).
	Autumn 2 Continue Pathway.	Spring 2 Continue Pathway.	Summer 2 Options: Rounders/cricket/tennis
11	Autumn 1 Student choice of activity: Fitness suite, dodgeball, badminton, benchball, just dance, fitness, netball, orienteering, volleyball	Spring 1 Student choice of activity: Fitness suite, dodgeball, badminton, benchball, just dance, fitness, netball, orienteering, volleyball	Summer 1 Student choice of outdoor activity: Rounders/ Tennis
	Autumn 2 Student choice of activity: Fitness suite, dodgeball, badminton, benchball, just dance, fitness, netball, orienteering, volleyball	Spring 2 Student choice of activity: Fitness suite, dodgeball, badminton, benchball, just dance, fitness, netball, orienteering, volleyball	

PHYSICS

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn Atomic structure and Radioactivity Combined Science Trilogy textbook: Pages 337 to 356 Separate Science textbook: Pages 92 to 111 and 234/35 History of the development of the model of the atom Isotopes and radioisotopes Radioactive decay and equations Structure and properties of ionsing radiation Half life Irradiation and Contaminations **Uses of radioactive materials** **Background radiation** **Fission and Fusion** **Life cycle of stars**	Spring Electricity Combined Science Trilogy textbook: Pages 291 to 317 Separate Science textbook: Pages 50 to 75 **Electric fields** **Static electricity** Electric charge and current How potential difference and resistance affect the current in a circuit. Ohms law and IV graphs for components How current, potential difference and resistance behave in series and parallel circuits Components for sensing Electrical power Electricity in the home	Summer Waves Combined Science Trilogy textbook: Pages 610 to 629 Separate Science textbook: Pages 50 to 75 Describing waves Frequency and time period Calculating and measuring the speed of waves in solids, liquids and gases Electromagnetic waves and uses Refraction How to reduce loss of thermal radiation **Sound** **How to use waves to look inside objects (seismic and ultrasound)** **Colour** **Reflection and seeing objects** **Lenses** **Black bodies**
11	Autumn Forces Combined Science Trilogy textbook: Pages 562 to 609 Separate Science textbook: Pages 114 to 171 Scalars and vectors Addition and resolution of vectors Speed, acceleration and motion graphs Newtons' laws of motion Stopping distances Terminal velocity Hooke's law Momentum **and impulse** **Pressure** **Pressure in fluids**	Spring Electromagnetism Combined Science Trilogy textbook: Pages 630 to 642 Separate Science textbook: Pages 214 to 231 Properties of magnets and magnetic fields The link between electricity and magnetism Electromagnets and their uses Electromagnetic forces Transformers **Electromagnetic induction** **How microphones and loudspeakers work**	Summer Revision and exams

RUSSIAN

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 ● Who am I? Relationships; when I was younger; what my friends and family are like ● Town, region and country: places to see in my area	Spring 1 ● Daily life: food and drink; shopping and cafes ● Environmental issues: being "green" whilst shopping	Summer 1 ● Holidays: preferences, activities, experiences and destinations. ● Travel and tourist transactions: travel; accommodation; eating out; shopping. ● Revision for internal exams
	Autumn 2 ● What makes a good friend (characteristics and descriptions) ● Daily life; shopping for clothes Daily life: everyday life, my regime ● Town, region and country: things to do.in my area	Spring 2 ● Interests; socialising with friends and family; reading; music; sport; film and television. ● Town, region and country: weather ● Town, region and country: things to do. Sports and music events	Summer 2 ● Cultural life: celebrations and festivals; ● Travel and tourist transactions: asking for help and dealing with problems; directions;
11	Autumn 1 ● What school is like: school types; school day; subjects; rules and pressures; celebrating success ● Role models for your academic and future life, ● who are they and what do they do (jobs/volunteering)	Spring 1 ● Work: jobs, careers and professions. ● Future aspirations, study and work ● Using languages beyond the classroom: forming relationships; travel; employment.	Summer 1 ● School activities: school trips (revision of travel), events (revision of events) and exchanges. ● Revision
	Autumn 2 ● Social media and technology (use of, advantages and disadvantages). ● Ambitions: further study; volunteering; training Revision for mock exams	Spring 2 ● Environmental issues: being "green" at school; access to natural resources. ● Bringing the world together: campaigns and good causes.	Summer 2 ● Revision for GCSEs

SCIENCE (COMBINED#)

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 Biology: Organisation Chemistry: Bonding, structure and properties Physics: Electricity	Spring 1 Biology: Bioenergetics Chemistry: Chemical changes Physics: Atomic structure	Summer 1 Biology: Ecology Chemistry: Energy changes Physics: Electromagnetism
	Autumn 2 Biology: Organisation Chemistry: Bonding, structure and properties Physics: Electricity	Spring 2 Biology: Ecology Chemistry: Chemical changes Physics: Atomic structure	Summer 2 Biology: Ecology Chemistry: Rates of reaction Physics: Energy
11	Autumn 1 Biology: Homeostasis and response Chemistry: Equilibria Physics: Energy	Spring 1 Biology: Variation, inheritance and evolution Chemistry: Hydrocarbons and analysis Physics: Further forces	Summer 1
	Autumn 2 Biology: Homeostasis and response Chemistry: Quantitative chemistry Physics: Waves	Spring 2 Revision	Summer 2

Sociology

Year	Autumn Term*	Spring Term*	Summer Term*
10	**Autumn 1** **The Sociological Approach** **Social Structures, Social processes and social issues** ● What is Sociology? ● What are the key debates within sociology? ● What are the key ideas of the classical sociologists Durkheim, Marx and Weber? ● What are the key ideas of the different sociological perspectives such as Feminism, Functionalism, Interactionism and Marxism? **Families** **Family forms** ● What is a family? ● What types of family diversity are there? ● Why have different family types become more or less common? ● What is Rapoport and Rapoport's account of family diversity? ● How far could it be said that there is a typical family in the UK today?	**Spring 1** **Families Continued** **Changing relationships within families** ● How have relationships within families changed over time?(pre-industrial, industrial and contemporary/modern) ● What changes have there been in people's relationships with members of their wider families? ● What are contemporary family-related issues? including the quality of parenting, Have parent and child relationships improved over the years? The relationships between teenagers and adults and the relationship between the elderly and their families ● How far does the ageing population impact the family? **Marriage and Divorce** ● What are the changing patterns and explanations of marriage and divorce in Britain since 1945? ● Explanations including: changes in the law, changes in social attitudes and values, secularisation, changes in the status of women in society ● What are the consequences of divorce for family members (husband and wife, children and extended family) and the increase in the numbers of lone-parent families? ● What is the view of the sociological perspectives on these issues (functionalist, feminist and Marxist)	**Summer 1** **Processes within schools** Processes within schools affecting educational achievement ● How can processes within schools affect educational achievement? including, streaming, setting, mixed ability teaching, labelling and the self-fulfilling prophecy ● What is the interactionist approach to education? ● What impact does labelling and the self-fulfilling prophecy have on achievement? ● What is the influence of streaming and subcultures on achievement? with reference to Ball ● What is the impact of the counter-school culture? with reference to Willis **Educational Achievement** **Gender** ● What are the patterns of achievement for gender? ● Why has there been an improvement in females' achievement? ● What are the reasons for the relative underachievement of boys? ● Why is there a difference in subject choice between males and females? **Ethnicity**

		• Research methods and Families • Exam technique • Families End of unit Test	• What is the pattern of educational attainment for different ethnic groups? • How do school processes influence the achievement of different ethnic groups?
	Autumn 2 **Families and Households Continued** **Functions of families** • What are the differing views of the functions of families • What is Parsons' functionalist perspective on primary socialisation and the stabilisation of adult personalities **Criticisms of Families** • How do the Functionalist/ Marxist/Feminist perspectives view the role of families? (Zaretsky on developments in families from a Marxist perspective, and Delphy and Leonard's feminist critique of families) **Family forms** • How far can it be said that there is a typical family in Britain today? • How do family forms differ in the UK and within a global context? **Conjugal Role Relationships** • What are the different views of conjugal role relationships? (joint and conjugal role) • How is the domestic division of labour different in traditional and contemporary families?	Spring 2 **Education** **Roles and functions of education** • What are the different views of the role and functions of education? • How does the Functionalist/Marxist Perspective view the role of the education system differ? • The functionalist perspective of Durkheim on education as the transmission of norms and values and of Parsons on achieved status and the operation of schools on meritocratic principles • What are the features of different types of school including primary and secondary, state and private? • What are the advantages and disadvantages of state and private education? • What do we mean by alternative forms of educational provision including home schooling and deschooling? **The relationship between education and capitalism** • What are the different views of the correspondence principle on the relationship between education and capitalism as developed from a Marxist perspective by Bowles and Gintis • What is Paul Willis's work on counter-school culture? **Educational achievement**	Summer 2 I**nternal School Examination**s **Government Education Policies** • What have been the key historical changes in Britain's education system? • What were the key changes introduced through the 1988 Education Act? • What has been the impact of marketisation in education with reference to Ball *et al*. and parental choice? • What has been the key changes in government educational policies since 1997? • Research methods and Education

	● What issues impact conjugal role relationships within the contemporary family? - including decision making, money management, dual career families, child rearing and leisure activities ● How is power distributed between partners in relationships? ● What is the feminist perspective of Oakley on the idea of the conventional family? ● What are the key ideas of the symmetrical family and the principle of stratified diffusion developed from the functionalist perspective of Willmott and Young? ● Is the Symmetrical family a reality or myth?	Factors affecting educational achievement including class, gender and ethnicity ● What are the patterns of achievement based on social class? ● How do material factors influence achievement?- with reference to Halsey and class based inequalities ● How do parental attitudes/choice and competition between schools influence achievement,? -with reference to Ball	
11	**<u>Autumn 1</u>** **Crime and deviance** **The social construction of crime and deviance** ● What is meant by crime and deviance? ● How is deviance socially constructed? **Social control** ● What is the difference between formal and informal social control? **Data on crime** ● What methods are used to research crime and deviance? ● What are the main sources of data on crime? ● What problems are there with police recorded crime statistics? ● What is the 'dark figure' of crime? **The Social Construction of Crime and Deviance** **Theories of Crime and Deviance** ● How do different Sociological perspectives compare with their views on social control	**<u>Spring 1</u>** **Social Stratification** **Introduction to social stratification** ● What is social stratification? ● What are the different types of social stratification? **Functionalist theory of stratification** ● What are the different views of the functionalist theory of social stratification? The work of Davis and Moore -effective role allocation and performance linked to promise of rewards **Socio-economic class** ● What are the different Perspectives views of socio-economic class ● What is Marx's view on social class? ● What is Weber's view on class, status and power? ● What are the different social class scales?	**<u>Summer 1</u>** Revision GCSE Exams

	and crime? (Interactionist, functionalist, feminist and Marxist) ● What are Merton's views on the causes of crime from a functionalist perspective? ● What are Becker's views on the causes of crime from an interactionist perspective? **Criminal and deviant behaviour** ● What factors affect criminal and deviant behaviour? including social class, gender, ethnicity and age. **The relationship between class and crime** ● What are the key ideas of Albert Cohen on delinquent subcultures? **The relationship between gender and crime** ● What are the patterns in the statistics for gender and crime? ● Why is there increasing women/s involvement in crime? ● What is the link between gender, crime and poverty? - Pat Carlen **The relationship between ethnicity and crime** ● What are the patterns in the statistics on ethnicity and crime? ● What are the explanations for the relationship between ethnicity and crime?	**Life chances** ● What do we mean by life chances? ● What is the relationship between life chances and social class, gender, race and ethnicity, ● How do factors such as sexuality, disability, religion and belief can affect life chances? ● What are sociological perspectives on life chances? (functionalist, feminist and Marxist) ● What does the term 'social mobility' mean?, ● What is the extent of social mobility in Britain? ● What are the problems in measuring social mobility? ● What are Devine's ideas on the affluent worker? ● Are well off members of the working class becoming more like the middle class? Embourgeoisement (Goldthorpe et al). ● What is the link between gender and power? How can we explain inequalities linked to gender ● What are the links between ethnicity and inequality? Why does inequality persist?, a ● What are the power relationships and inequalities linked to age? **Poverty as a social issue** ● What do the terms relative and absolute poverty mean? ● What are the different interpretations of poverty as a social issue? including the culture of poverty, material deprivation ● What are the different ways of measuring poverty? Townsend - relative deprivation ● Which social group are more likely to experience poverty? Why are some groups more at risk of poverty? ● What are the different explanations of poverty including Murray's account of the underclass and the links to the New Right?	

		• What is the 'welfare state' and how have governments attempted to address poverty? • What are the different perspectives on welfare - New right, Centre- Left, Marxist and Feminist	
	<u>Autumn 2</u> **The relationship between Age and Crime** • What is the pattern of crime and deviant behaviour of different age groups? • What factors affect criminal and deviant behaviour of different age groups? • What are the Sociological explanations for differences between age groups?-Albert Cohen's key ideas on delinquent subcultures • How should society respond to criminal behaviour by young people? Age of criminal responsibility, Youth custody **Debates on crime: treatment of young offenders** • Should young people be punished for crimes or should they be treated in a way to prevent them recommitting in the future? • Punishment or education? **Debates on Crime: The prison System, rehabilitation and punishment** • What is the prison system designed to achieve? • Arguments for and against the use of prison and punishment • Should people be punished and sent to prison for their crimes or should they be rehabilitated? • Arguments for and against the use of community punishment.	**<u>Spring 2</u>** **Stratification** **Power and authority** • What are the different forms of power and authority?- including traditional, charismatic, rational-legal, formal and informal sources of power • What are the key ideas of Weber on power and authority? • How do sociological perspectives differ on power and authority? (functionalist, feminist and Marxist) **Power relationships** • What are the different factors affecting power relationships? including social class, gender, sexuality, race, age, disability, religion and beliefs • How do sociological perspectives differ on power relationships? (functionalist, feminist and Marxist) • What are Walby's ideas on patriarchy? **Globalisation** • What is Globalisation? • What is the impact of Globalisation on the UK? • What is the link between globalisation and poverty? • Research methods and Stratification **Revision and stratification end of unit test.**	**<u>Summer 2</u>** **External GCSE Examinations**

	● Alternatives to prison **Debates on crime: Violent crime and sentencing** ● How should society respond to violent crime? ● Sentencing violent offenders ● Mandatory prison sentences **Debates on crime: the media** ● What is the public debate over the media coverage of crime? ● How accurate is the reporting of crime by the media? ● Are the media biased in their presentation of crime? ● What is the role of the mass media in the process of deviancy amplification? ● How accurate is the reporting of crime by the media? ● Does the media create crime ● Research methods and crime **Revision for Mock Examinations**		

SPANISH

Year	Autumn Term*	Spring Term*	Summer Term*
10	Autumn 1 Unit 1: Me, my family and friends (theme 1)	Spring 1 Units 9: My studies (theme 3)	Summer 1 Unit 2: Technology in everyday life (theme 1) Examination preparation
	Autumn 2 Unit 5: Home, town, neighbourhood and region (theme 2)	Spring 2 Unit 10: Life at school and college (theme 3)	Summer 2 EXAMS and feedback Unit 2: Technology in everyday life (theme 1)
11	Autumn 1 Unit 8: Travel & Tourism (theme 2) Unit 4: Customs & Festivals (theme 1)	Spring 1 Exam feedback Unit 6: Social issues (theme 2) Unit 7: Global issues (theme 2)	Summer 1 Oral exams Unit 11-12: Education post-16 / Jobs, career choices and ambitions EXAMS
	Autumn 2 Unit 6: Social issues (theme 2) Examination preparation MOCKS	Spring 2 Unit 7: Global issues (theme 2) Unit 3: Free-time activities (theme 1) Oral exam preparation	Summer 2 EXAMS