



SUBJECT	EXAMINATION CONTENT
Mathematics	<p style="text-align: center;">Higher Tier</p> <p>Number:</p> <ul style="list-style-type: none"> • Surds, Calculating with Percentages, Compound Interest/Depreciation • Upper and Lower Bounds • Ratio Problems • Indices • Recurring Decimals and Standard Form <p>Algebra:</p> <ul style="list-style-type: none"> • Sequences • Solving Equations and Simultaneous Equations (Linear and Quadratic) • Quadratics: Expanding brackets, factorising, completing the square, formula • Straight Line Graphs: plotting, $y = mx + c$, parallel and perpendicular lines <p>Geometry:</p> <ul style="list-style-type: none"> • Speed and Density • Angles in Polygons • Congruence and Similarity, Pythagoras and Trigonometry • Volume and Surface Area • Transformations <p>Statistics:</p> <ul style="list-style-type: none"> • Probability: Relative frequency, mutually exclusive and independent events • Sample Spaces, Frequency Trees and Probability Trees • Averages including from Frequency Tables • Pie Charts, Scatter Graphs, Box Plots and Cumulative Frequency • Venn Diagrams and Histograms <p><i>A full list of topics, including links to Sparx Maths Tasks will be uploaded onto Class Charts by the 23rd May for you to begin your preparations over the half term.</i></p>
Mathematics	<p style="text-align: center;">Foundation Tier</p> <p>Number:</p> <ul style="list-style-type: none"> • Fractions, Decimals and Percentages • Rounding and Estimation • Square, Cube and Prime numbers • Highest common factors and lowest common multiples • Standard Form and Ratio Problems <p>Algebra:</p> <ul style="list-style-type: none"> • Simplifying expressions, Expanding and Factorising Brackets • Straight Line Graphs, plotting, $y = mx + c$, • Solving one and two-step equations and Simultaneous Equations <p>Geometry:</p> <ul style="list-style-type: none"> • Parts of a Circle, Metric Units, Speed and Density • Pythagoras' Theorem and Trigonometry • Loci and Constructions <p>Statistics:</p> <ul style="list-style-type: none"> • Probability: relative frequency, mutually exclusive and independent events • Sample Spaces, Frequency Trees and Venn Diagrams • Bar Charts, Pictograms, Averages including from Frequency Tables. <p><i>A full list of topics, including links to Sparx Maths Tasks will be uploaded onto Class Charts by the 23rd May for you to begin your preparations over the half term.</i></p>



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English	<p>Language Paper 1 (Explorations in creative reading and writing)</p> <p>Section A (Reading – fiction extract, 4 questions) Q1. List four true statements Q2. Language analysis Q3. Structure analysis Q4. Evaluate methods</p> <p>Section B (Writing) Q5. Choice of description or a narrative</p> <p>Literature Paper 2 (An Inspector Calls, Power & Conflict Poetry, Unseen Poetry)</p> <p>Section A: An Inspector Calls, one essay (45 minutes, 30 marks & 4 marks SP&G) Section B: Power & Conflict Poetry, one comparative essay (45 minutes, 30 marks) Section C: Unseen Poetry, two essays (45 minutes, 32 marks total)</p>
Science	<p>Biology (Combined and Separate Science): Cell biology; Organisation; Infection and response; and Bioenergetics (Photosynthesis and Respiration)</p> <p>Chemistry (Combined and Separate Science): Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.</p> <p>Physics (Combined and Separate Science): Energy; Electricity; Particle model of matter; and Atomic structure.</p> <p>Revision support will be provided to support students.</p>
Art	<p>NEA - sustained unit part 1.</p> <ul style="list-style-type: none"> • Revision is the planning that is completed every week in class and as homework. By the exam day all the assessment areas below should be completed; <ul style="list-style-type: none"> • Title page • Mind map • Photography photoshoot and contact sheet • Drawings from your photography in a range of different materials • Artist reference and analysis • Development of ideas using the style of the artist and observational studies • Exam you will complete the final piece that you have planned.



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Business	<p>1 – Business in the real world</p> <ul style="list-style-type: none"> 1.1 Purpose and nature of business 1.2 Ownership models 1.3 Business aims and objectives 1.4 Stakeholders 1.5 Location decisions 1.6 Business planning 1.7 Business expansion (including economies of scale) <p>2 – Influences on business</p> <ul style="list-style-type: none"> 2.1 Technology 2.2 Ethical and environmental considerations 2.3 Economic factors 2.4 Globalisation 2.5 Legislation 2.6 Competitive environment <p>4 – Human resources management</p> <ul style="list-style-type: none"> 4.1 Organisational structures 4.2 Recruitment and selection <p>Students should refer to the revision checklist for a detailed breakdown.</p>
Computer Science	<p>Part 01 Content:</p> <p>Systems Architecture</p> <ul style="list-style-type: none"> • Fetch Decode Execute • CPU Performance • Memory • Secondary Storage <p>Data Representation</p> <ul style="list-style-type: none"> • Units and Binary • Binary Arithmetic • Hexadecimal • Representing Characters • Representing Sound • Representing Images • Compression <p>Part 02 Content:</p> <p>Programming</p> <ul style="list-style-type: none"> • Fundamentals • Sequence and selection • Iteration • Arrays • Procedures/Functions • Records/Files • SQL <p>Logic and Languages</p> <ul style="list-style-type: none"> • Binary Logic • Defensive Design • Errors and Testing • IDE's



SUBJECT	EXAMINATION CONTENT
Design & Technology	<p>Section A Material properties – malleability, toughness Ferrous metals Input and output devices (electronics) Man made boards(manufactured boards) Renewable sources, pollution & global warming Modern materials, technical textiles and their functions Polymers Papers and Boards Motion and linkages</p> <p>Section B Specialist Processes Resistant Materials (Laser cutter, wood turning, vacuum forming etc) Specialist Processes Graphics (Die cutting, offset lithography etc) Use of templates Material selection – availability / cultural and social factors Carbon footprint</p> <p>Section C Analysis and evaluation of product functionality Impact on the environment of wooden furniture Calculating materials required from a drawing Deforming and reforming manufacturing process Exploded drawings Use of datum points Obtaining high quality outcomes from a laser cutter Obtaining high quality outcomes from a 3D printer The importance of prototyping</p>
Drama	<p>Section A: I Love You Mum – I Promise I Won't Die Learners must consider how the text is constructed and how performances create meaning through:</p> <ul style="list-style-type: none"> the characteristics of the performance text, including <ul style="list-style-type: none"> genre structure character (including interpretation and function within an extract) form and style Language/dialogue stage directions the social, historical and cultural context including the theatrical conventions of the period in which the performance text was created how meaning is interpreted and communicated through <ul style="list-style-type: none"> performance conventions use of performance space and spatial relationships on stage, including the impact of different stages (proscenium arch, theatre in round, traverse and thrust) on at least one scene relationships between performer and audience the design of lighting, sound, set (including props) and costume, hair and make-up the actor's vocal and physical interpretation of character <p>Section B: Live theatre – War Horse</p> <ul style="list-style-type: none"> Learners will be expected to provide basic details of the production, including the name of the play, company and venue. Will assess, analyse and evaluate a given aspect of a live theatre production Learners will be expected to understand and use appropriate drama and theatre terminology



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Food Preparation & Nutrition	Section A: Food hygiene and safety Cooking methods Vitamins Minerals Big 6 diet related illnesses Food science key terms Yeast Food storage BMR Energy requirements Heat transfer Raising agents Carbohydrates	Section B: Vegetarian and vegan diets Sensory testing Primary and secondary processing Microorganisms in food production Healthy eating guidelines Dietary needs through life Seasonal food Food Packaging Bread making Emulsification Food hygiene and safety
Geography	Component 1 – Investigating Geographical Issues: Theme 1: Topic – UK Cities – Changing places Changing Economies. Theme 2: Topic – Climate Change Theme 2: Topic – Weather and Climate. Revision Support will be using Seneca learning and additional materials on ClassCharts	
Health & Social Care - BTEC	Component 3: Health and Wellbeing Effects on PIES of: <ul style="list-style-type: none"> • lifestyle factors • environmental factors • economic factors Current and future health risks of: <ul style="list-style-type: none"> • a high BMI • heart rate • drugs (cocaine) • alcohol over the recommended amount • poor diet • lack of exercise Established recommendations for helping to improve health and wellbeing: <ul style="list-style-type: none"> • improving resting heart rate and recovery rate after exercise • improving blood pressure • maintaining a healthy weight • eating a balanced diet • getting enough physical activity • quitting smoking • sensible alcohol consumption • stopping substance misuse. Support available when following recommendations to improve health and wellbeing: <ul style="list-style-type: none"> • formal support from professionals, trained volunteers, support groups and charities • informal support from friends, family, neighbours, community and work colleagues 	
History	Section A - Conflict and Tension: Manchurian Crisis, Causes of WW2, Abyssinia, TOV. Section B – Germany: Stresemann era, Kaiser Wilhelm, Hitler Youth, Reasons for Hitler’s rise to power	



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MFL	There will be Listening, Reading and Writing papers on modules 1- 6. Detailed information on what to revise can be found on ClassCharts.
Music	MAD TSHIRT terms The concerto Film and computer game music Rhythms of the world Popular song
Physical Education – GCSE	<u>Paper 2 – Socio-Cultural influences and wellbeing in physical activity and sport.</u> <ol style="list-style-type: none"> 1. Classification of Skills 2. SMART Targets 3. Basic Information Processing 4. Guidance and Feedback on Performance 5. Mental Preparation for Performance 6. Engagement Patterns 7. Commercialisation 8. Ethical and Socio-cultural Issues 9. Health, Fitness and Wellbeing