

Year 10 Examination Content



Subject	Examination Content
Mathematics	<p style="text-align: center;"><u>Higher Tier</u></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 style="text-align: center;"><u>Foundation Tier</u></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 15th May for you to begin your preparations ahead of the half term.</i></p>

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<p>English</p>	<p>Language Paper 1 (Explorations in creative reading and writing)</p> <p>Section A (Reading – fiction extract, 4 questions) Q1. Identify four true statements on a short section of the extract Q2. Language analysis on one short section of the extract Q3. Structure analysis on the whole extract Q4. Evaluation including commentary on the writer’s methods on part or all of the extract</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 essay questions (45 minutes). One essay is 24 marks & the second essay Q is 8 marks and is a comparison of the two unseen poems.</p>
<p>Science</p>	<p>Biology (Combined Science 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 outlining topics.</p>
<p>MFL</p>	<p>There will be Listening, Speaking, Reading and Writing papers which include the following:</p> <p>Theme 1 People and Lifestyle: Identity and Relationships with others Healthy Living and Lifestyle Education and Work</p> <p>Theme 2 Popular Culture: Free time activities, Customs, festivals and celebrations Celebrity culture</p> <p>Theme 3 Communication and the World Around us: Travel, tourism and places of interest Media and Technology The environment where people live</p>

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Geography	<p>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, Eduqas B Geography blended learning and additional links on Class Charts.</p> <p><u>Component 2 – Problem solving paper (Unseen topic)</u></p>
History	<p>Section A - Conflict and Tension: Manchurian Crisis, Causes of WW2, Abyssinia, TOV.</p> <p>Section B – Germany: Stresemann era, Kaiser Wilhelm, Hitler Youth, Reasons for Hitler’s rise to power</p>
Design & Technology	<p><u>Section A</u> Material properties – malleability, toughness, hardness etc Timbers (softwood, hardwood, manufactured board) Papers and boards Polymers (thermoforming and thermosetting) Ferrous metals (ferrous and non-ferrous) Renewable sources, pollution & global warming Modern and smart materials Scales of production (one-off, batch, mass and continuous)</p> <p><u>Section B</u> 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><u>Section C</u> Product analysis (aesthetics, function, ergonomics, safety etc) CAD/CAM Prototypes and why we make them Drawing skills (3D drawing skills, orthographic) Ergonomics and anthropometrics</p> <p><u>Maths skills in D&T</u> Working out surface area Plotting data Ratios</p>

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Food Preparation & Nutrition	<p>Section A:</p> <p>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</p>	<p>Section B:</p> <p>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</p>
Computer Science	<p>Part 01 Content:</p> <p>Systems Architecture (Unit 1)</p> <ul style="list-style-type: none"> • Fetch Decode Execute • CPU Performance • Memory • Secondary Storage <p>Data Representation (Unit 2)</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 (Unit 7)</p> <ul style="list-style-type: none"> • Fundamentals • Sequence and selection • Iteration • Arrays • Procedures/Functions • Records/Files • SQL <p>Logic and Languages (Unit 8)</p> <ul style="list-style-type: none"> • Binary Logic • Defensive Design • Errors and Testing • IDE's
Art	<p>NEA – Sustained Unit.</p> <ul style="list-style-type: none"> • Revision is the planning that is completed in class and as homework every week. By the exam day all the assessment areas below should be completed; <ul style="list-style-type: none"> ○ Title page ○ Visual mind map ○ Photography photoshoot and contact sheet ○ Drawings from your photography in a range of different materials ○ Artist reference and analysis of their use of line/tone/pattern/colour/texture and composition ○ Development of ideas for a final piece, using the style of the artist and your observational studies ○ Material tests. • Exam Day you will complete the final piece that you have planned over the weeks on the run up to your exam. 	

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<p>Drama</p>	<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 – The Woman in Black (or another live production you have seen – Disney Hamilton allowed too)</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 •
<p>Music</p>	<p>MAD TSHIRT terms The concerto – Baroque, Classical, Romantic Film and computer game music Rhythms of the world – African, Indian Classical, Bhangra, Calypso, Caribbean, Greek, Israeli and Palestinian Popular song – Rock n Roll, Rock Anthems, Pop Ballads, Solo Artists</p>
<p>GCSE PE</p>	<p><u>Paper 2 – Socio-Cultural influences and wellbeing in physical activity and sport.</u></p> <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 <p>Health, Fitness and Wellbeing</p>

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BTEC H&SC	<p>Component 3: Health and Wellbeing</p> <p>Effects on PIES of:</p> <ul style="list-style-type: none">- lifestyle factors- environmental factors- economic factors <p>Current and future health risks of:</p> <ul style="list-style-type: none">- a high BMI- heart rate- drugs (cocaine)- alcohol over the recommended amount- poor diet- lack of exercise <p>Established recommendations for helping to improve health and wellbeing:</p> <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. <p>Support available when following recommendations to improve health and wellbeing:</p> <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
GCSE Business	<p><u>Paper 1 – Theme 1 – Investigating small businesses</u></p> <p>Topic 1.1 Enterprise and entrepreneurship</p> <p>Topic 1.2 Spotting a business opportunity</p> <p>Topic 1.3 Putting a business idea into practice</p> <p>Topic 1.4 Making the business effective</p> <p>Topic 1.5 Understanding external influences on business</p> <p>Students should refer to the revision checklist for a detailed breakdown – this will be on Classcharts and can also be accessed following this link - https://qualifications.pearson.com/content/dam/pdf/GCSE/Business/2017/specification-and-sample-assessments/gcse-business-spec-2017.pdf - pages 10 - 14</p>