

Year 10 Half Term 4 Curriculum

Subject	Half Term 4 – Topic/Summary of Powerful Knowledge
English	<p><u>The Road to True Love</u></p> <ul style="list-style-type: none"> • The characterisation of Romeo and Mercutio • The language of love – sexualised language (euphemism and innuendo), religious language (semantic field) • Themes of honour, violence and masculinity • Modern and contemporary attitudes to masculinity – features of an article • Attitudes to Tybalt’s death and Juliet’s ‘death’ – oxymoron, exclamatory sentences, repetition • The parting of Romeo and Juliet – foreshadowing, juxtaposition • The themes of fate and miscommunication • The significance of the Friar and the theme of suicide • Shifts in tone – Juliet's death and Romeo’s reaction • The significance of Paris • The deaths of Romeo and Juliet – personification of death, extended metaphor <p><i>Main Text: Romeo and Juliet (Shakespeare)</i> <i>Secondary texts: The Penelopaid (Atwood, 2006), How can my son be a year old already? (Stuart Heritage, 2016), Boy Lost (a Victorian mother), Poppies (Weir), Charge of the Light Brigade (Tennyson), Kamikaze (Garland).</i></p>
Maths	<p><u>Ratios & fractions</u></p> <ul style="list-style-type: none"> • Compare quantities using a ratio (Recall) • Link ratios and fractions (Recall) • Share in a ratio (given total or one part) (Recall) • Use ratios and fractions to make comparisons • Link ratios and graphs • Solve problems with currency conversion • Link ratios and scales (Recall) • Use and interpret ratios of the form 1 : n and n : 1 • Solve best buy problems • Combine a set of ratios • Link ratio and algebra • Ratio in area problems (Higher content) • Ratio in volume problems (Higher content) • Mixed ratio problems <p><u>Percentages & Interest</u></p> <ul style="list-style-type: none"> • Convert and compare fractions, decimals and percentages (Recall) • Work out percentages of amounts (with and without a calculator) (Recall) • Increase and decrease by a given percentage (Recall) • Express one number as a percentage of another (Recall) • Calculate simple and compound interest • Repeated percentage change • Find the original value after a percentage change (Recall) • Solve problems involving growth and decay • Understand iterative processes (Higher content) • Solve problems involving percentages, ratios and fractions <p><u>Probability</u></p>

	<ul style="list-style-type: none"> • Know how to add, subtract and multiply fractions (Recall) • Find probabilities using equally likely outcomes (Recall) • Use the property that probabilities sum to 1 (Recall) • Using experimental data to estimate probabilities • Find probabilities from tables, Venn diagrams and frequency trees • Construct and interpret sample spaces for more than one event (Recall) • Calculate probability with independent events • Use tree diagrams for independent events • Use tree diagrams for dependent events • Construct and interpret conditional probabilities (tree diagrams) (Higher content) • Construct and interpret conditional probabilities (Venn diagrams and two-way tables) (Higher content)
Science	<p><u>Structure, bonding and the properties of Matter B</u></p> <ul style="list-style-type: none"> • Properties of ionic compounds • Properties of small molecules • Polymer structure • Giant covalent structures • Alloys • Carbon allotropes • Nano technology <p><u>Moving and changing materials B</u></p> <ul style="list-style-type: none"> • Learning about circulation • Exploring the heart • Studying the blood • Gas exchange • CHD <p><u>Particle model of matter</u></p> <ul style="list-style-type: none"> • Density
History	<p><u>History Around Us</u></p> <ul style="list-style-type: none"> • Case Study of the 'Old Dock' Liverpool's first and most important dock, pupils will look at the evolution and growth of Liverpool, migration in and out of the town in preparation for some exam questions which will be set by the OCR exam board.
Geography	<p><u>Living world:</u></p> <ul style="list-style-type: none"> • Location of hot deserts. • Plant and animal adaptations to hot deserts • Opportunities and challenges of hot deserts • Desertification causes • Solutions to desertification
Spanish	<p><u>Social issues:</u></p> <ul style="list-style-type: none"> • Talking about poverty and homelessness • Using reflexive constructions • Talking about volunteering • Learning about verb which are followed by an infinitive • Talking about charities and voluntary work • Using me 'gustaría'

Art	<p><u>Portraiture and Facial Features</u></p> <ul style="list-style-type: none"> • Observational drawing record shape, size, scale, proportion, texture, tone, form • Experimenting with a range of media, techniques (e.g pencil and biro) and processes. • Study historical and contemporary artists including Leonardo Da Vinci, Mark Powell and Noel Badges Pugh. <p><u>Out of Place - Portraiture and Surrealism</u></p> <ul style="list-style-type: none"> • Developing compositions with drawing, painting, collage and mixed media pieces inspired by Surrealism and contemporary artist Antonio Mora
Art Textiles	<p><u>Out of Place – Juxtaposition</u></p> <ul style="list-style-type: none"> • Developing compositions exploring a range of Textile techniques including drawing with stitch, printmaking, beading, embroidery etc
Business	<p><u>Students will be completing their Pearson Set Assignment (PSA) for Component 1.</u> This will involve researching an enterprise of their choice based on a brief set by the exam board. They will investigate how and why enterprises and entrepreneurs are successful. Content involves:</p> <ul style="list-style-type: none"> • the activities enterprises undertake and the characteristics and skills of the entrepreneurs that run them • An understanding of customer needs and competitor behaviour through market research • an understanding of how the outcomes of situational analyses may affect enterprises
Computing	<p><u>Understanding what data is and how it is used</u> – Students will look at the different types of data and how it is used by individuals and organisations. Students will look at the basic spreadsheet tools in Microsoft Excel and how they can be used to manipulate data.</p> <ul style="list-style-type: none"> • Be able to explain that data is unprocessed and has no meaning, structure or context until it is processed and becomes information. • Understand the different ways that information can be presented in (Text, Numbers, Tables, Graphs and infographics) and be able to give real world examples of each. • Use some basic validation rules to check that data is valid. • Explain the difference between primary and secondary data and some of the methods used to collect this data alongside some of the factors that might impact on its accuracy. • Look at how organisations use data modelling to make decisions. • Understand some of the threats that exist to data and how we can keep it safe.
Construction	<p><u>Joinery and Carpentry</u></p> <ul style="list-style-type: none"> • Learners will understand the uses of different tools and materials used in the industry to construct a practical outcome. They will be able to demonstrate an understanding of safe working practices when using specific tools and materials. • Learners will develop knowledge and understanding of different methods and correct techniques used in the construction of the practical outcome.

	<p>They will need to demonstrate these methods and techniques when operating safely in the work environment.</p> <p><u>Sub-structure groundworks</u></p> <ul style="list-style-type: none"> • Learners will need to know hazards and risks associated with groundworks, including control methods to complete the work safely: • Collapse of the sides of the excavation, confined spaces, safe access and egress, overburden, likelihood of collapse due to type of soil, avoiding services, proximity of excavation plant, control of water: – temporary control of sub-soil and surface water during excavation (simple sump pumping), permanent control of sub-soil water (land drainage). • Learners will need to know how groundworks are constructed, including: • Types of underground utility services: gas supply, electricity supply, water supply, drainage, telecommunications, earthwork support: steel trench sheets, timbering, hydraulic trench supports, interlocking sheet piling, trench box.
Design Technology	<p><u>Material categories - Timber specialism techniques</u></p> <ul style="list-style-type: none"> • Learners will have an overview of the main categories and types of natural and manufactured timbers: Softwoods, hardwoods and manufactured woods. • Primary sources of materials and the main processes involved in converting into workable forms for timbers based materials • Properties of materials – Learners will understand how different properties of materials and components are used in commercial products, how properties influence use and how properties affect performance. • Learners will understand the different stock forms types and sizes in order to calculate and determine the quantity of materials or components required. • Commercially available types and sizes of materials and components. • Timber based materials: planks, boards and standard moldings, sold by length, width, thickness and diameter, standard components eg woodscrews, hinges, KD fittings. • To be able to investigate how timber can be added to, or joined, in a workshop environment. • To be able to select and use the correct tools and equipment to shape and join equipment and machinery safely • Culture and society • Environment and Sustainability • Production Systems • Section C – drawing skills
Hospitality & Catering	<p><u>1.3.1 Health and safety in hospitality and catering provision</u></p> <ul style="list-style-type: none"> • Safety symbols • PPE • Manual handling • Risks to personal safety • Lasagna • Pizza • Pulled chicken and Sesame noodles • Spicy pork steak with chunky pineapple salsa • Quiche • Chilli Con Carne • Pad Thai
Drama	<p>Component 2 Developing Skills and Techniques in Performing Arts</p> <p><u>Learning aims A, B & C</u></p>

	<ul style="list-style-type: none"> • Students will develop performing skills and techniques, through participation in workshops and classes to develop technical, practical and interpretive skills through the rehearsal and performance process. • They will work with an existing performing arts repertoire, applying relevant skills and techniques to reproduce a performance of the work. • Identifying strengths and areas for improvement, target setting and evaluation of final performance.
Health	<u>Human lifespan development – Component 1 Learning A1-B2</u> <ul style="list-style-type: none"> • Controlled assessment for Component 1 (Task 1-4) • Resubmission improvements (Task 1-4)
Music	<u>Composing Original Music-Free Composition (Component 3)</u> <ul style="list-style-type: none"> • Recording music using a midi keyboard • Composing a melody • Using melodic and rhythmic devices • Developing a musical idea using musical devices • Create a complete and coherent piece of music • Applying dynamics to a composition • Completed free composition
Sport Studies OCR	<u>J185-Sport Performance and leadership</u> <ul style="list-style-type: none"> • Topic Area 4: Leading a sports activity session • Teacher witness statement of the session delivered. <u>J184- Contemporary issues in sport</u> <ul style="list-style-type: none"> • Topic Area 4: The role National Governing Bodies (NGBs) play in the development of their sport
PE Core	<u>Development of skill and tactics in one of the following sports : netball, bench ball, dodgeball, fitness, football, rounders and soft ball.</u> <ul style="list-style-type: none"> • The positive impacts exercise can have on PSE well-being.
Photography	<u>Portraiture and Disguise</u> <ul style="list-style-type: none"> • This unit is designed to introduce students to photography through portraiture and disguise. • Students will be given the opportunity to explore a studio environment as well as post production techniques in Photoshop.
RE/PSHE	<u>Post-16 Options:</u> <ul style="list-style-type: none"> • Competitive advantage • Vocation • Examples of those who have answered a religious calling <u>GCSE: Christian Practices</u> <ul style="list-style-type: none"> • The Liturgical year • Celebrations of Christmas and Easter • The responsibility of the church to help those in need. • Mission and Evangelism • Growth of the worldwide church • The church and reconciliation • The persecution of Christians

	<ul style="list-style-type: none"> • How does the church help those in poverty around the world?
Psychology	<p><u>Sleeping and dreaming</u></p> <ul style="list-style-type: none"> • The functions, features and benefits of sleep • Internal and external influences on sleep • Symptoms of sleep disorders – insomnia and narcolepsy • Freudian theory of dreaming • Activation Synthesis Theory • Studies – Freud (1909) and Siffre (1975)
Sociology	<p><u>The Sociology of Families</u></p> <ul style="list-style-type: none"> • How relationships within families have changed over time. • The theory of the symmetrical family and the principle of stratified diffusion developed from the functionalist perspective of Willmott and Young. • Different criticisms of families (isolation and unrealistic idealisation, loss of traditional functions, lack of contact with wider kinship networks, the status and role of women within families, marital breakdown, dysfunctional families). • The work of Zaretsky on developments in families from a Marxist perspective and Delphy and Leonard's feminist critique of families. • Changes in the pattern of divorce in Britain since 1945 and the consequences of divorce for family members and structures.