Year 10

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|   | **Autumn**  | **Spring**  | **Summer**  |
| Subject  | **1st Half Term**  | **2nd Half Term**  | **1st Half Term**  | **2nd Half Term**  | **1st Half Term**  | **2nd Half Term**  |
| English Language  | Writing Skills  - narrative & creative How is the drafting and editing process of writing a skill to develop for GCSE and beyond? | Writing Skills  - transactional Why is planning an effective use of time? | Reading for meaning  Why are 'big ideas' so important? | Reading fiction and reading for meaning How are characters described within texts? Why are the language choices important? | Reading non-fiction Spoken Language Study What are the key messages within the texts and how can they be compared? | Writing Non-Fiction Spoken Language Study Why is this topic so important to you and how will you structure your speech? |
| English Literature  | An Inspector Calls (Drama, first read, characters, plot and stage directions) How do we explore the language, themes and context of the play? | A Christmas Carol (First read, characters and plot) How do we explore the language, themes and context of the novel? | MacbethHow is the character arc of Macbeth developed and what is the message to the audience? | Power and Conflict poetry (provisional depending on exam board)How is conflict embedded in the poems you have studied? | All lessons to be redirected to English Language, as above.  | All lessons to be redirected to English Language, as above. |
| Mathematics (Higher)  |

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| Calculations, checking and rounding |
| Indices, roots, reciprocals and hierarchy of operations |
| Factors, multiples, primes, standard form and surds |
| Algebra: the basics, setting up, rearranging and solving equations |

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| Sequences |
| Averages and range |
| Representing and interpreting data and scatter graphs |
| Fractions and percentages |

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| Ratio and proportion  |
| Polygons, angles and parallel lines |
| Pythagoras’ Theorem and trigonometry |

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| Graphs: the basics and real-life graphs |
| Linear graphs and coordinate geometry |
| Quadratic, cubic and other graphs |

  | Perimeter, area and circlesForms and volumeCylindersCones and spheresAccuracy and bounds |

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| Transformations |
| Constructions, loci and bearings |
| Solving quadratic and simultaneous equations |
| Inequalities |

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| Mathematics (Foundation)  |

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| Integers and place value |
| Decimals  |
| Indices, powers and roots |
| Factors, multiples and primes |
| Algebra: the basics |
| Expressions and substitution into formulae |

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| Tables, charts and graphs |
| Pie charts |
| Scatter graphs |
| Fractions, decimals and percentages |
| Percentages |

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| Equations and inequalities |
| Sequences  |
| Properties of shapes, parallel lines and angle facts |
| Interior and exterior angles of polygons |

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| Statistics, sampling and the averages |
| Perimeter, area and volume |
| Real-life graphs |
| Straight-line graphs |

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| Transformations  |
| Ratio  |
| Proportion |

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| Right-angled triangles: Pythagoras and trigonometry |
| Probability |
| Multiplicative reasoning |

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| Science (Combined / Triple B strands only for single science)  | B2: OrganisationWhat are the levels of organisation in living organisms? What role do enzymes play in human digestion? What are the main structures of the heart and blood vessels? What effect does lifestyle have on some non-communicable diseases? How do plant tissues differ from human tissues? C2: Structure and bonding P2: Electricity Within a circuit how are current, potential difference and resistance linked? What happens to the resistance across different components as current changes? How is electricity generated and supplied in the UK? What effect do electric fields have on charged objects? | B2: Organisation What are the levels of organisation in living organisms? What role do enzymes play in human digestion? What are the main structures of the heart and blood vessels? What effect does lifestyle have on some non-communicable diseases? How do plant tissues differ from human tissues?C3: Quantitative Chemistry How do we calculate structure of compounds and utilise this to calculate concentrations and molarity?P2: Electricity Within a circuit how are current, potential difference and resistance linked? What happens to the resistance across different components as current changes? How is electricity generated and supplied in the UK? What effect do electric fields have on charged objects? | B3: Infection and response What are the four main types of microorganism that cause disease and how do they affect individuals? What are the first, second and third lines of defence our bodies have against pathogens? How have modern drugs been developed? How are monoclonal antibodies produced and used?C4: Chemical changesHow do you know a reaction has occurred? Can you make a soluble salt? Can you carry out a titration? What is electrolysis and why do we use it?  P4: Atomic structureWhat is the current model of the atom and how has this changed over time? What effect does radioactive decay have on nuclei? What are the hazards of radiation? What are the reactants and products of nuclear fission and fusion?  | B3: Infection and response What are the four main types of microorganism that cause disease and how do they affect individuals? What are the first, second and third lines of defence our bodies have against pathogens? How have modern drugs been developed? How are monoclonal antibodies produced and used?C5: Energy changes What are exothermic and endothermic reaction? How can you calculate the bond energy of a reaction?What is a battery and a fuel cell?P6: Waves What are the properties of waves and how do they travel in air, fluids and solids? How can sound waves be used for detection and exploration? What are the properties, uses and dangers of electromagnetic waves? How can lenses be used to change the nature of an object? What is black body radiation? | B4: Bioenergetics What is photosynthesis, what limiting factors are there and how can the rate of photosynthesis be measured? Where are aerobic, anaerobic respiration and fermentation used in everyday life? C6: Rate and extent of chemical changeWhat is the collision theory? How can we manipulate it to affect the rate of reaction? Can you measure the rate of reaction and evaluate your results? P6: Waves What are the properties of waves and how do they travel in air, fluids and solids? How can sound waves be used for detection and exploration? What are the properties, uses and dangers of electromagnetic waves? How can lenses be used to change the nature of an object? What is black body radiation? | B7: Ecology What do plants and animals compete for and how are they adapted to be successful at it? What are abiotic and biotic factors in an ecosystem? How can quadrats be used for random sampling? How can materials such as carbon and water be cycled? What is the impact of environmental change on the distribution of organisms? C6: Rate and extent of chemical change What is the collision theory? How can we manipulate it to affect the rate of reaction? Can you measure the rate of reaction and evaluate your results?P8: Space (triple only)What celestial objects are found in the solar system? What is the life cycle of low mass and high mass stars? What theories and evidence are there for how our Universe began?  |
| Child Development  |  Health and well-being for child development  What are the reproductive organs and what does a responsible parent look like? | Health and well-being for child development  What is antenatal care? What are the stages of labour? |  Health and well-being for child development  What is postnatal care? |  Health and well-being for child development  How to recognise, manage and prevent childhood illness? | Health and well-being for child development  How do you keep a child safe? | Working towards RO19 Internal Assessment – What equipment would you need for a nursery setting aged 0-12 months?  |
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| Computer Science  | 1.1 Systems Architecture   What is the architecture of the CPU? What affects CPU performance? What are embedded systems?  | 1.2 Memory and storage   What are the key differences between primary storage (memory) and secondary storage?  | 1.3 Computers networks, connections and protocols   What are the main types of networks and topologies? What is the difference between wired and wireless networks. What is meant by network protocols and layers?  | 1.4 Network security   What are the main threats to computer systems and networks and how do you identify and prevent vulnerabilities?  | 1.5 Systems software   What is the purpose of an Operating System and Utility Software?  | 1.6 Ethical, legal, cultural and environmental impacts of digital technology   What are the ethical, legal, cultural and environmental impacts of digital technology?  |
| History  | Weimar and Nazi GermanyWhat impact did WWI have on Germany?What was the Weimar Republic?What threats did the Weimar Republic face? | Weimar and Nazi GermanyHow did Hitler change the Nazi Party between 1919 and 1923?Were the 1920s Golden in Germany?Why didn’t people support the Nazi Party in the 1920s? | Weimar and Nazi GermanyHow did Hitler come to power?What was life like in Nazi Germany for children, women and minority groups?Did the Nazis face any opposition? | Superpower Relations and the Cold WarWhat were the origins of the Cold War?What were the early events of the Cold War between 1945 and 1953? | Superpower Relations and the Cold WarWhat were the main Cold War crises? | Superpower Relations and the Cold WarWhat was the period of Détente?Why did the Cold War come to an end? |
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| Geography  | Urban issues and challenges (unit 2.1)*What issues does continued urbanisation cause people and the environment?*Case study: Rio de JaneiroCase study: London  | UK landscapes (unit 1.3)*How have our UK landscapes formed?*Options – Coastal landscapes and river landscapes  | UK landscapes (unit 1.3)*How have our UK landscapes formed?*Options – Coastal landscapes and river landscapes  |  Natural Hazards (unit 1.1)*How do natural events affect our human geography?*Case studies: Typhoon Haiyan Earthquakes: New Zealand & Nepal | Natural Hazards (unit 1.1)*How do natural events affect our human geography?*Case studies: Typhoon Haiyan Earthquakes: New Zealand & NepalFieldworkScarborough  | The Changing Economic World (unit 2.2)*How do levels of development affect our global community?*Case study of an NEE: Nigeria  |
| French  | Relationships with family and friendsQui sont plus importants, la famille ou les copains ?Who are more important, family or friends? | Free time: sport, music, TV, cinema and readingQu’est-ce que tu aimes faire ?What do you like to do? | Technology.Festivals in French-speaking countriesQuels sont les avantages et les inconvénients de la nouvelle technologie ?What are the advantages and disadvantages of new technology? | Festivals in French-speaking countries.My schoolQuels sont les fêtes importantes en France ?What are the important celebrations in France? | Life at schoolC’est comment, ton collège ?What is your school like? | Jobs and future careers.RevisionQu’est-ce que tu vas faire à l’avenir comme emploi ?What are you going to do in the future for a job? |
| German  | Schule Wie findest du die Schule? (What do you think about school?) | Freizeit Was machst du in deiner Freizeit? (What do you do in your free time?) | Familie und Freunde Wie verstehst du dich mit deiner Familie und Freunden? (How do you get on with your family and friends?) | zu Hause Wie verstehst du dich mit deiner Familie und Freunden? (How do you get on with your family and friends?) | zu Hause Wo wohnst du? (Where do you live?) | zu Hause Wo wohnst du? (Where do you live?) |
| Religious Studies  |  Christianity: Beliefs and teachings.What does Christianity teach us about crime and punishment? |  Christianity: Beliefs and teachings.What does Christianity teach us about crime and punishment? | Christianity: Practices.Themes in Religion: peace and conflict.What influence does religion have on peace and conflict around the world?  | Christianity: Practices.What influence does religion have on peace and conflict around the world?  | Themes in Religion: Religion and life.What impact does religion have on human rights and social justice? | Themes in Religion: Religion and life.What impact does religion have on human rights and social justice? |
| P.E.  | Applied anatomy and Physiology P1  The structure and function of the musculoskeletal system; develop a good understanding of key body systems, their impact on health, fitness and performance in sport.Movement analysis; Can you identify 2 antagonistic pairs?  |  Applied anatomy and Physiology P1  Physical Training; The 10 Components of fitness; Agility, Balance, Power, C.V endurance, R.time, coordination, flexibility & m.endurance. Aerobic and anaerobic exercise; What is he difference between the 2 systems, which sporting activities can you put under each? |  Applied anatomy and Physiology P1  Structure and function of cardiorespiratory system; The mechanics of breathing both at rest , during and after exercise. Lung volumes; expiratory and inspiratory reserves. Can you label the structure of the heart and give its roles and functions?   | Health Fitness and Well being P2  Energy use, diet, nutrition and hydration; Somatotypes; the 3 types, their descriptions and identification within different sports and positions. What are the different food types needed in a balanced diet and what does each food group supply?  | Socio cultural Issues in Physical activity and sport P2   Engagement patterns Commercialisation; What are the factors affecting participation in sport? Sponsorship, media and the ‘Golden’ Triangle show how money can be made by sporting events e.g Olympic Games.What are the positive and negative impacts of the media and sponsorship?  | Socio cultural Issues in Physical activity and sport P2  Ethical Issues, commercialisation, psychology. Technology in sport; Performer, spectator, officials and the link with positive and negative impacts of each. Hooliganism and conduct of performers. How does a football club combat the impacts off spectator behaviour if its negative?  |
|  Design Tech (3D Design Art and Design) | Intro to the assessment objectives. What a sketch book could look like.How is the Exam broken down to make your GCSE grade?  |  Chris Gilmour, Card Sculpture. Design communicationHow do you make structures in cardboard modelling? What techniques can you use? | Metal skills Wood skillsPlastic skillsExplain how to cut and shape resistant materials safely and accurately.  | Everyday Objects projectWhat does scale mean? How do designers represent scale on their work?  | Jewellery ProjectExplain how materials can be manipulated in multiple ways?  | Jewellery ProjectHow can you incorporate CAD and CAM to improve the quality of your outcome?.  |
| Hospitality and Catering  | Understanding the Hospitality environmentWhat is the difference between Hospitality and Catering?  | Food safety and legislationBakingWhy do employers have to follow legislation?  | Environmental issues and customer needsPastryWhat is an EHO and what do they do?  | Quality Assurance and commoditiesBreadsWhat order do you receive and store different foods? Do you know why?  | Exam Preparation (1st Attempt)Sauces How does your exam affect your overall grade?  | Exam Revision(1st Attempt)Meats and FishHow do you write an extended exam question?  |
| Drama  | Elephant Man – Stanislavski - The System. What is the Stanislavski system? Can you use the system to enhance characterisation, vocal and physical skills in an individual performance (monologue)? | Brecht and devising.What is the purpose of Epic theatre in today’s society? How can Brechtian techniques enhance your own devised work for examination?  | Component 1 – Devising from exam board released stimuli. Working in a group of between 3 and 5. Can you create, develop and perform your own devised piece to a high standard in the style of Brecht? | Rehearsal and performances recorded for Component 1. Can you maintain rehearsal in a group through resilience and co-operation with others, whilst analysing your work and reshaping ideas to meet the exam criteria?  | Portfolios and evaluations for Component 1. Can you evidence your devising process and evaluate your personal contributions to rehearsal and final performance?  | Physical Theatre, theatre visit and writing theatre reviews. How can you use physical expression in performance to communicate deeper meanings to an audience? How does live theatre affect you and an audience, taking all aspects of production into account?  |
| Art  | Altered Nature Project 1How can we ‘alter nature’ in a visual way? | Altered Nature Project 1How can we ‘alter nature’ in a visual way? | Altered Nature Project 1How can we ‘alter nature’ in a visual way? A04 Focus | MOCK EXAMWhat is a Mock Exam and how do I prepare? | MOCK EXAMWhat is a Mock Exam and how do I prepare? | MOCK EXAMWhat is a Mock Exam and how do I prepare? |
| Music  | How can we useMusescore to helpus to learn to readmusic andunderstand basicmusic theory?AOS 1 What is therhythm ofBadinerie?AOS 4Which instrumentcan I play to create an ensemble ofAfrica by Toto?How are themusical elementsused in the setwork Africa byToto?Performance - What does a goodpractise routinelook like? | How do we read akey signature?What are diatonicchords?What makes agood chordsequence?How do I write amelody for mychord sequence?How do I add lyricsin muse score?How do wecompare twoversions of thesame song?How does Bachuse the musicalelements inBadinerie? | AOS 3How does acomposer usemusical elementsto create anatmosphere orrepresent acharacter?How are themusical elementsused in Badinerie?AOS1 How do youtell the differencebetween baroque,classical andromantic music?What is a musicalcadence?What is an albertibass?What are thedifferent structuresI need to know atGCSE?  | AOS 2How is musical texture and sonority used in Musical Theatre?What are the characteristics of Jazz and blues music?What is Chamber music and how does a composer decide on the instrumentation?How do you write a pop song? | Composition. Can you compose your own piece of music? How will you score it?How will you make sure it is playable by your chosen instruments? What was yourcompositionalprocess? | Composition. Can you compose your own piece of music? How will you score it? How will you make sure it is playable by your chosen instruments?What was yourcompositionalprocess? |
| Dance  | Safe Dance Practice  RADS Choreographic process, devices and form How Can you demonstrate safe dance practice personally and in the studio?What are the key components of dance choreography?   | A Linha Curva  Teacher choreographed performance  Improving technique Can you analyse and evaluate all aspects of A Linha Curva?How can technique enhance the quality of a performance?C | Shadows   Duo/trio  Chorography Can you analyse and evaluate all aspects of Shadows?Evaluate the impact of chorographic devices to enhance meaning in choreography.  | Emancipation of Expressionism  Exploration of styles  Group choreography Can you analyse and evaluate all aspects of Emancipation of Expressionism?How can you use a stimulus as a starting point for choreography? | Within her eyes  Site specific task  Solo - Set Phrase Can you analyse and evaluate all aspects of With in Her Eyes?How can a site specific performance complement a stimulus? | Solo – Set phase  Expressive and physical skills  Set phrase exam How can you use physical and expressive skills to enhance your performance? |