

Units	English Language & Literature	Maths	Science - Biology	Science - Chemistry	Science - Physics	RE	Geography
1	Language Paper 1 - Reading and understanding a range of selected texts. Fiction reading and writing focus.	Similarity – Congruence, similarity and enlargement Trigonometry	B1- cells - Microscopy, structure and function of Eukaryotic and Prokaryotic cells, specialised cell examples, movement of substances via diffusion, osmosis and active transport. B2- cell division - Mitosis, Stem cell uses and ethics	C1 – Atomic Structure - Introduction to atomic structure and reminder of separation techniques using properties. Development of Atomic theory	P1 - Conservation and dissipation of Energy - Introduction to energy stores, conservation of energy, efficiency and power. P2 - Energy Transfer by heating - Heat transfers by conduction, convection, radiation. Insulating homes, specific heat capacity required practical (RP) (Triple - Infrared RP)	Christianity: Beliefs - Student begin their GCSE course by studying the beliefs and teachings of Christianity.	Global Cities - Compare characteristics of two global cities including growth and character. Opportunities and challenges. Management strategies. Sustainability.
2	A Christmas Carol - Study of A Christmas Carol with a key focus on characters, themes and key quotations from the novella.	Developing algebra - Representing solutions of equations and inequalities Simultaneous equations	B3- organisation & digestion - Structure and function of the digestive system. Food tests RP, conditions for enzyme activity.	C2 – Periodic Table - Development of the Periodic table Patterns and trends within the periodic table (Triple - Transition metals)	P3 - Energy Resources - Energy demands, renewable / non-renewable energy resources, big energy issues.	Christianity: Practices - Student will be looking in depth at worship, the sacraments, prayer, pilgrimage, festivals and mission.	Urban Processed and Environments of the UK - Characteristics of Urban environments, Leisure and retail change in the UK. Urban and Rural Change.
3	Language Paper 2 - Reading and understanding a range of selected texts. Non-fiction reading and writing focus.	Geometry – Angles and bearings Working with circles Vectors	B4- Animal Tissue/Plant tissue - Structure of the leaf, transport and transpiration in plants. Blood vessels, structure and function of the heart, heart disease and the structure and function of the lungs	C3 – Structure & Bonding - How atoms form compounds & the properties of those bonds. (Triple – Nanoparticles)	P4 - Electric Circuits - Current, PD, charge, component characteristics, resistance RP x2 (Triple – Static) P5 - Electricity in the Home - AC /DC and explaining this, how homes are safe e.g. RCDs Plugs, fuses	Relationships and families - Student consider the beliefs of Christians and Muslims with regards to human relationships and families. Students will look at sexuality and marriage, family planning and gender equality.	Uneven patterns of development – Globalisation, International Trade, Scale of uneven levels of development, Case study of UK, LIC and NIC. Types of Aid
4	An Inspector Calls - Students dive into the play text An Inspector Calls and learn about representation of characters as well as play craft and staging.	Proportions and Proportional change – Ratios and fractions Percentages and interest Probability	B5- Disease - Communicable disease, immune system, disease examples. (triple- plant disease and defence, culturing microbes)	C4 – Chemical Calculations - Conservation of mass and the mole concept. Concentration. Yield, titrations & gas calculations. C5 – Chemical Changes - Explaining reactivity, displacement and acid/base reactions.	P6 - Molecules and Matter - Explaining internal energy, states of matter / changing state, density RP (Triple - Gas Pressure and temperature/ volume0	Religion, crime and punishment- Students will look at the purpose of punishment in society with a particular focus on the issue of capital punishment. Student will also look at	Coasts - Coastal Processes, Study of an erosional landscape, Landforms of coastal deposition, Human Activity and stakeholders.
5	Power and Conflict - Students undertake an in-depth study of all poems from the Power and Conflict Anthology.	Delving into data – Collecting, representing and interpreting data	B6- Preventing disease - Vaccinations, antibiotics and painkillers, drug development. (Triple- monoclonal antibodies) B7- Non-communicable disease (Health data) - Non-communicable disease, cancer, lifestyle data.	C6 – Electrolysis - Principles and uses of electrolysis. Extraction of aluminium.	P7 – Radioactivity - Atoms and radiation, discovery of the nucleus, radioactive decay. (Triple - Fission and fusion and nuclear medicine)	Religion, peace and conflict the current state of British Society- Students consider the beliefs of Christians and Muslims with regards to conflict. Students will consider the concepts of justice, forgiveness and reconciliation.	Weather and Extreme Weather - Introduction to UK weather and pressure systems, Tropical Storms including one case study. Extreme Event linked to a semi-arid zone.
6	Language 1,2 and speaking and listening. - Writing specific focus on both fiction and non-fiction texts.	Using number – Non-calculator methods Types of number and sequences Indices and roots	B8- Photosynthesis - Photosynthesis, rate of photosynthesis B9- Respiration - Respiration, the effects of exercise, metabolism B10- Nervous system - Homeostasis introduction, RP reflex actions (Triple- the brain and the eye)	C7 – Energy Changes - Exothermic and endothermic reactions; examples and uses. (Higher Tier - Bond energy calcs), (Triple - Fuel Cells)	P8 - Forces in balance - Vectors and scalars, forces, resultant forces Centre of mass (Higher Tier - Free body diagrams), (Triple - Moments and equilibrium, levers and gears)	Revision and preparation- Students will revise the topics of; Relationships and Families, Religion, Crime and Punishment, Religion, Peace and Conflict, and Christianity Beliefs and Practices.	Climate Change - Ecosystems damaged by climate change, Consequences of climate change, Economic impacts of climate change, Rising Sea Levels and Storm Frequency. Responses to climate change
7	Macbeth - Study of Macbeth with a key focus on characters, themes and key quotations from the novella.	Bespoke planning following the question level analysis on the Year 10 end of year assessments.	B11- Hormonal control - Blood glucose, menstrual cycle, contraception, Triple- Plant hormone uses, HT only- hormonal control and negative feedback loops. (B12- Triple- Homeostasis in action - Thermoregulation, osmoregulation)	C8 – Rates and Equilibrium - Rate of reaction and how they can be altered; reversible reactions & equilibrium	P9 – Motion - Speed, acceleration, Motion graphs. P10 Force and Motion - Force and acceleration, Weight and terminal velocity, Stopping distance, Elasticity. (Higher tier - momentum and conservation), (Triple - Higher only: Impact force, safety measures)	Religion, human rights and social justice - Students consider the beliefs of Christians and Muslims with regards to human rights and social justice.	Rivers - River Processes, how geology affects the development of river landforms, Flooding – causes and management. Coasts of management.
8	Language paper 1 and 2 - Reading and understanding a range of selected texts. Fiction reading and writing focus.		B13- Reproduction - Sexual and asexual reproduction, genetic screening, meiosis, DNA genome mapping, basic inheritance.	C9 – Crude oil & fuels - Hydrocarbons and crude oil – processing and use (C10 – Triple - Organic reactions - Organic functional groups – their properties and uses) (C11 – Triple – Polymers - Polymers (additional & condensation) with DNA as an example)	(P11 – Triple - Force and pressure - Pressure and surfaces. Atmospheric pressure, Higher only: Liquid pressure. Up thrust and floatation)	Islam: Beliefs and teachings - Students will be studying the core beliefs and teachings in Islam, with a focus on the nature of God, and the prophets.	Ecosystems - Biotic and Abiotic elements, Wildlife and habitat interaction, UK ecosystems, Global Ecosystems.
9	Unseen and Anthology Poetry - Students undertake an in-depth study of all poems from the Power and Conflict Anthology.		B14- Variation and Evolution - Variation in a group, theories of evolution, selective breeding, genetic engineering (Triple- cloning)	C12 – Chemical analysis - Analysing pure & impure substances, dyes and gases (testing for ions & instrumental analysis)	P12 Wave properties - Wave properties, wave speed, echoes, Higher only: Reflection and refraction. (Triple - Higher only: Sound and ultrasound, Seismic waves) P13 - Electromagnetic waves - EM spectrum, Wave speed, Higher only: signals and carrier waves	Islam practices - Students will be studying the core practices in Islam, with a focus on the five pillars and the festivals.	Water Supply and Desertification - Examples of water scarcity, Cause, effect and response of desertification Weather and Climate.
10	An Inspector Calls - Students dive into the play text An Inspector Calls and learn about representation of characters as well as play craft and staging.		B15- Genetics - Extinction and Fossils, Antibiotics, classification (Triple- isolation and speciation)	C13 – Earth’s atmosphere - How the atmosphere evolved and how it is still being changed; global warming & atmospheric pollution mechanisms.	(P14 – Triple - Light – Reflection and refraction of light Colour, Lenses)	Study of religions and themes revision - Students will revise Islam; beliefs and teachings, and practices. Christianity; beliefs and teachings, and practices in preparation for their GCSE examinations	
11	Revision of all topics of study - Students will recap each area of study of literature and language to highlight any final misconceptions or areas for development.		B16- Adaptations, interdependence and competition - Communities, biotic and abiotic factors, RP distribution of species, adaptations B17- Organising Ecosystems - Feeding relationships, material cycling, carbon cycle, (Triple- decay)	C14 – Earth’s resources - Sustainable living, including drinking water, sewage, recycling and product life cycle assessments.	P15 – Electromagnetism - Magnetic fields of magnets, Earth and current carrying wire, Higher tier only: Motor effect. (Triple – Electromagnets, Higher only: Generator effect, alternating current generators and transformers.)		
12			B18- Biodiversity and Ecosystems - Global warming, deforestation, biodiversity, waste management, land use (Triple- trophic level pyramids)	C15 – Using Earth’s resources - Alloys and designer materials; Haber process and optimum conditions	P16 – Triple - Space - Solar system, Life cycle of stars, Planets and satellites, Expanding Universe – beginning and future, Higher only: Orbits)		

Units	History	Sociology	Languages – French / German / Spanish	Computer Science	Business Studies	Food and Nutrition	DT
1	The Cold War – The beginnings of the Cold War (1940's) - Atomic, bomb, Ideology, Yalta and Potsdam, Truman Doctrine, Expansion in Europe. Marshall Plan	The Sociological Approach – Debates within sociology – Conflict versus Consensus. Different Sociological Perspectives. The work of classical sociologists	Identity and culture – Me, my family and friends. Relationships with family and friends. Marriage/partnership. Technology in everyday life. Music, cinema and TV. Eating out/special occasions. Free-time activities. Customs and Festival.	Systems Architecture - Students gain an oversight of the inner workings of the CPU and CPU specific functions, and how the Von Neumann architecture operates.	Business in the Real World - Understand the role of business enterprise and entrepreneurship, and the dynamic nature of business.	Commodity 1: Fruit and vegetables - This first module provides students with a good introduction to the format of the course as well as most of the basic practical skills needed to complete the NEA2 element of the course.	Theory - Students cover the GCSE AQA DT theory compounds of the programme. These include; key ideas in design, materials and systems.
2	The Cold War – Development of the Cold War (1950's) – The War in Asia, Arms and Space Race, NATO and Warsaw Pact, The 'Thaw', Hungary, U2 Crisis.	Research methods - Small scale research project. How research is conducted, Qualitative and quantitative approaches, Diverse types of data, Ethical Issues, Practical Issues, Interpretation of Data	Local, national, international and global areas of interest – Home, town, neighbourhood and region. Social issues. Charity/voluntary work. Healthy/unhealthy living.	Memory & Storage - Students learn the difference between primary and secondary memory, Common memory technologies and methods of data representation.	Influences on a Business - Understand the importance of external influences on business and how businesses change in response to these influences.	Commodity 2: Milk, cheese and yoghurt - This module details food provenance for dairy as well as how cattle are reared. Processing and classification are also explored and investigated.	Mobile Phone Holder - Students will develop their 3D design and manufacture skills by making a mobile phone holder to be printed on the 3D printer and then hand finished.
3	The Cold War – Transformation of the Cold War (1960's) – Berlin Wall, Tensions over Cuba, Czechoslovakia, SALT and Détente.	Families - Function of Families Family Forms, Conjugal role relations, Changing relationships within families, Criticism of families, Divorce.	Local, national, international and global areas of interest – Global issues. The environment. Poverty/homelessness. Travel and tourism.	Computer networks, connections & protocols - Students cover the different in LANs/WANs and different network hardware along with factors which affect network performance.	Business Operations - Understand what business operations involve, their role within the production of goods and the provision of services, and how they influence business activity.	Commodity 3: Cereals (including flours, breakfast cereals, bread and pasta) - Dietary considerations are studied in this module as we study allergies, intolerances as well as religious diets and vegetarianism. Cereals from around the world are used in the practical element of this commodity.	Portable Speaker - Students will develop their knowledge of the laser cutter, 3D designing with plywood, spray finishes and will investigate the needs of the portable Bluetooth speaker marker
4	Empire, Migration and People – Birth of English identity – Viking Empire, Norman Kingdom, Angevin Empire, The Hundred Years war.	Sociology of Education - role and functions of education, functionalist perspective of Durkheim, views of the correspondence principle, educational achievement, Processes within Schools.	Current and future study and employment – My studies. Life at school. Education post-16. Jobs, career choices and ambitions.	Network Security - Students look at types of attacks and preventative measures which can be used to negate potential attacks.	Human Resources - The purpose of human resources, is to understand its role within business and how it influences business activity.	Commodity 4 : Meat, fish, poultry, eggs - We begin to look deeper into the food science of our recipes and ensure that students are using the correct terminology throughout this module.	Point of Sale Display - Students will look into point of sale displays and their purpose. They will consider nets and foam board slot together designs to learn how to make a point of sale free standing
5	Empire, Migration and People – Colonisation and Empire – Explorers and Pirates, Colonisation in North America, Migrants to and from Britain, Expansion in India, Expansion in Africa.	Sociology of Crime - Social Concepts of Crime, Formal and Informal Social Control, Factors affecting criminal behaviour, Crime data and usefulness of crime data.		System Software - Students gain an oversight of the use of the OS and its functions used to maintain and improve performance.	Marketing - The purpose of marketing, is to understand its role within business and how it influences business activity.	Commodity 5: Butter, oils, margarine, sugar and syrup - Nutritional values - including sources, functions, deficiencies, excess, daily requirements are looked at in depth for this module.	Sky Scrapper Interiors - Students will become interior designers as they take on the design of a floor of our skyscraper. They will learn to consider the purpose of a building and how to make it effective.
6	Empire, Migration and People – Britain in the 20th Century – The end of Empire, Legacy of Empire, The commonwealth, The Falklands, European Union.	Social Stratification - views of society, views of class, Views on factors affecting life chances, poverty as a social issue, Different forms of power and relationships		Ethical, legal cultural and environmental impacts of digital technology - Students discuss a range of issues and the impact on stakeholders and technology.	Finance - The purpose of the finance unit, is to understand its role within business and how it influences business activity.	Commodity 6: Soya, tofu, beans, nuts, seeds - We pull together all the topics that have been taught in year 10 as well as completing a mock NEA1 and NEA2 during this last term.	Coursework - 4 times a fortnight for 5 weeks – 12 lessons - Starting their GCSE Coursework.
7	Norman Life and Control - Conquest and Control - Causes of Norman Conquest, Military Aspects, Establishing and Maintaining control Life Under the Normans - Feudalism and government, Economic and Social Change.			Algorithms - Students break down problems and representing these in visual formats e.g. flowcharts.		NEA1 preparation and research - The NEA1 is a Food Science assessment. The students will be given a choice of two tasks – they will plan, investigate and evaluate the task	
8	Germany 1890-1929 - German laws and political change between 1890 and 1929 including Kaiser Wilhelm, Impact of the First World war, Weimar Democracy, The Stresemann Era			Programming Fundamentals - Students explore the key programming constructs of sequence, selection and iteration.		NEA2 preparation and delivery - The NEA2 requires the students to prepare, cook and present a menu which assesses their knowledge, skills and understanding in relation to the planning, preparation, cooking and presentation of food.	
9	Germany – 1929-1945 - Germany between the wars and during World War 2, Impact of Depression, Failure of Weimar Democracy, The Establishment of Hitler's Dictatorship, Economic Changes, Social Policy and Practice, Control.			Producing robust programs - Students cover how to design programs that survive contact with the users.			
10				Boolean logic - Students explore how Boolean logic is used in electronics.			
11				Programming languages * IDEs - Students look at the characteristics between high- and low-level languages and the features that IDEs offer			

Units	Art	Digital Photography	Music	PSHCE	PE - GCSE	ASDAN			
1	Natural Forms - Drawing/mixed media/3D. Students will be introduced to a variety of artist's craftsperson and designers that have produced work in response to the theme Natural forms. The students will experiment with a wide range of media including clay, paints and collage.	Introduction to camera and Photoshop technique - Introduction to the basics of the course including PS techniques and image manipulation. Extending understanding of equipment, Image making and course expectations.	Understanding Music - There are four Areas of Study: Western Classical Tradition 1650-1910, Mozart's Clarinet Concerto, Popular Music, Traditional Music, Paul Simon's, 'Graceland', Western Classical Tradition since 1910	British values - Students will explore the importance of the British values and how they contribute to society.	Anatomy and physiology and training to develop fitness. - Students will develop knowledge and understanding of how the body is structured and how exercise has an impact upon it. Students will explore different fitness tests and training methods to develop components of fitness.	The community - As a group the students will organise a Charity cake sale in aid of McMillian cancer. Students will explore the impact different Charities have on the life experience of those in need. They will recognise local Charities and how they raise money for those in need.			
2	Sweets - Students will be introduced to a variety of artists, photographers, designers that all have different interpretations of the theme 'Sweets'. The students will project their own images in the style of these artist and look at close up drawing and looking at work from above. The topic focuses on bright colours and bold, eye catching outcomes.	Natural Forms - This photographic mixed media project introduces students to a variety of photographers that have produced work in response to the theme Natural forms	Performing - A solo performance - Instrumental, vocal, DJ or a realisation using music technology. An ensemble performance - There needs to be two other performers with distinct and separate parts.	Careers - Students will begin to look at future opportunities available to them. They will link skills / subjects they enjoy to local College/apprentices available.	NEA written piece of controlled work - Student will have 14 hours to complete a NEA written piece of controlled work	Communication - Students will recognise different ways to communicate with people. They will compare and contrast communication dependant on the scenario.  Number handling - Students will look at different life scenarios and recognise skills and strategies to overcome them.			
3	From Above' - Mixed media project - Students will be introduced to a variety of artists, photographers, designers that all have different interpretations of the theme 'From Above'. The students will experiment with a wide range of media including clay, paints and collage.	Identity project - Students are introduced to contextual sources in response to the theme, extending their awareness of types of portraiture. Extending their understanding of human form, shapes, scale and identities.	Composing - Two pieces of coursework are required: A composition following a teacher assigned brief. A free composition.	Health and well-being (SRE) - Students will develop knowledge across a range of SRE topics. (Types of relationships, sex & the law, contraception, pregnancy, adoption, miscarriage, parenting, reproductive health and STI's)	Socio cultural issues and sport psychology - Students will develop knowledge and understanding of socio culture issue in sport, sport psychology and health and well-being.	Home management - Students will develop a range of life skills that will support them later on in life, this could range from planning a healthy lunch to organising the way the room is presented.			
4	Externally Set Exam - Students will be introduced to a variety of artists, photographers, designers that all have different interpretations of the themes provided.	Mini Worlds - Take a look at the world from a Macro scale. Using everyday objects and toys as props to create mini worlds, telling stories of current/ past events in modern life.		Careers - Students will be supported with identifying different Careers/college/courses are suited and available to them.	Practical sport - Throughout the course, students will participate in a variety of individual and team sports. Two of the five lessons a fortnight will be practical. The selection of sports will depend upon the cohort of the group and the most likely sports to be selected by the students.	Sports and leisure - Students will participate in individual and team skills. They will recognise where and how they can get active living a healthy active lifestyle.  Science and technology - Students will learn how to construct or re-upholster an item. They will plan, do and review their work.			
5	Portfolio skills - Re-visit past projects and extend their portfolio. How to prepare your work for exhibition/ interview and final assessments.			Health and well-being (SRE) - Students will develop their knowledge and understanding across a range of SRE topics (Gender, sexuality, STI's and substance abuse on parenting.)		Environment - Students will develop or maintain an outdoor space, this could be the outside classroom or long jump pit.  World of work - Students will explore future options available to them which suit their skills and style of learning.			
6				Health and well-being - Students will recognise how to assess physical and mental well-being. Lessons based on health screening and mental well-being in preparation to support them with their exams.		Combined studies - Students will study a variety of topics/subjects, looking at exam techniques and strategies to cope with stress.			