

## Haberdashers' Adams curriculum

Year	Subject	Content and Skills overview
Year 07	Art	Tone and general principles of the subject with a focus on observation, pattern and rendering (shading and tonal re-production). Colour and the use of colour materials, colour theory and colour rendering (focus on colour pencil re-production). Texture, pattern and techniques (Hatching, Cross Hatching, Scumbling and Stippling).
Year 07	Biology	Cells & Movement, Human Reproduction, Genetics & Evolution, Ecosystems. Practical and scientific skills are embedded within each of the units; taught throughout the year.
Year 07	Chemistry	(1) Lab safety and hazard symbols, using a Bunsen safely (2) The Particle Model, Model of the Atom and the Periodic Table (3) Scientific diagrams, Heating and Cooling curves and Purity (4) Mixtures vs compounds and Separation Techniques (5) Physical vs Chemical Change (6) Acids, indicators and neutralisation (7) Investigation skills (8) Metals and the Reactivity Series
Year 07	Design and Technology	Health & Safety, Computer Aided Design & Manufacture (laser + vinyl cutters), working properties of materials (plastics, wood), Isometric sketching, orthographic projection, sketch modelling, simple manufacturing processes using a range of hand tools and workshop equipment.
Year 07	English	All pupils follow a course of core units covering reading, writing and spoken English. The core units cover a range of fiction and non-fiction texts. These include 'A Christmas Carol,' 'Poetry from Other Cultures,' 'Myths and Legends,' 'Twelfth Night' and many more. Pupils learn how to analyse and explore language and how to write in a variety of forms.
Year 07	French	Identity and culture: Me, my family and friends, Personal information, Pets, Talk about yourself, my family and friends, Describing my family, Talk about where people live, Your area and region, Your house, Revision/Preparation for Summer exams, Project based activities (Customs & Careers)
Year 07	Geography	Geographical skills, UK & home region, settlement and world cities home region enquiry, weather
Year 07	German	(1) Identity: introducing yourself, saying where you live, describing yourself. (2) Family & Pets: family members, pets, describing them and talking about their birthday & age. (3) Free time: sport and leisure activities including modern technology, giving frequency of use and opinions. (4) School: school subjects, facilities, rules, timetables and describing teachers. (5) Holidays: what there is and isn't in a town, buying snacks, drinks & souvenirs, talking about holiday plans.
Year 07	History	(a) What is History? Was William's invasion the first of its kind? (b) How did William Succeed in his invasion? How did William keep control? (c) Who holds the power? Church v State Religion: Beckett & The Crusades; The Black Death, The Peasants Revolt & Magna Carta. (d) The Tudors: Absolute Monarchy – Absolute Disaster? Henry VII, Henry VIII & Edward; Mary, Elizabeth & Spanish Armada.
Year 07	Mathematics	Factors & Multiple (2 weeks), Scales loci & constructions (4 weeks), Fractions & percentages (4 weeks), multiplication division powers roots (3 weeks), statistics & graphs (4 weeks), negative numbers & algebra (5 weeks), number patterns (3 weeks), ratio & transformations (4 weeks), plane shapes & prisms (3 weeks), inequalities (2 weeks)
Year 07	Music	The elements of music focusing on Pitch (Melody) Duration (Note lengths) and Sonority (Instruments of the Orchestra). Students begin with developing their rhythm skills in a Latin American project. Performance skills are also developed on keyboard and a family of orchestral instruments. Each House performs in a concert at the end of the first two terms. In the summer term instrumental work continues as well as weekly singing tasks.
Year 07	Physical Education and Sport	All students have an hour a week of core physical education and two hours of Sport. They take part in Badminton, Basketball, Cricket, Gymnastics, fitness and Tennis. Pupils have one afternoon a week of sport: in the winter boys will do rugby and the girls will do netball.
Year 07	Physics	Electricity (Basic Circuits), Magnetism and Electromagnets, The Earth in Space (including seasons, eclipses and the Moon), Forces (including gravity, friction and springs)
Year 07	PSHCE	PSHCE is a planned programme of learning through which pupils acquire the knowledge, understanding and skills they need to manage their lives and thrive as individuals, family members and members of society. Topics include Relationships and Sex Education, Drug and Alcohol Awareness, Peer Pressure, Study Skills and Positive Mental Health.
Year 07	Religious Studies	Year 7 RS introduces pupils to the key aspects of the Six Major World Religions, including beliefs, practices and history. Term 1: What is a human? Development of religious thought in Great Britain. Term 2: Introduction to Philosophy of Religion. Term 3: Philosophy of Religion continued. Prejudice and discrimination, including an independent learning project.
Year 08	Art	Collage techniques; creating original images from secondary sources. Illustration and book design (Diary Project). A mixed-media project taking in IT, graphic design and illustration. Hundertwasser project. A new project using colour focus and extension design in order to understand an artist's technique.
Year 08	Biology	Respiration and Breathing, Microbes and Disease, Food and Digestion, Photosynthesis. Practical and scientific skills are embedded within each of the units, taught throughout the year.
Year 08	Chemistry	(1) Physical and chemical change: combustion and investigation skills (2) The earth, atmosphere and its development, products of combustion linked to climate change and acid rain (3) Investigation skills (4) Patterns in the Periodic Table and structure of an atom (5) ions and ion formation, Noble Gas structure (6) Binary ionic compounds (7) Investigation skills
Year 08	Design and Technology	Mechanisms, types of motion, simple machines and mechanical devices; simple electronic products (input, process, output), Printed Circuit Boards and soldering; ergonomics, block modelling techniques; isometric sketching and rendering; Product analysis, PACEFM, looking at the work of other designers.
Year 08	English	All pupils follow a course of core units, reading, writing and spoken English. These units include the study of international texts like 'The Whale Rider;' as well as some of Shakespeare's History plays especially Henry V. Students explore a wide range of poetry and learn how to write and study verse in a variety of forms. They also study the great Elizabethan morality play 'Dr Faustus. Later in the year, students explore a range of non-fiction travel writing including the story of Captain Scott. Students write in a variety of forms including creative writing. When studying classical texts, pupils are able to develop their critical voice and appreciate the techniques used by a writer before experimenting with it themselves.
Year 08	French	Identity and culture: My family and where I live, Talk about your family, Talk about jobs, Talk about where people live, Weather/ typical day, Food and drinks, Part of the body and illness, Healthy eating, Sports, Plans to get fit, Free-time activities, Sports, Activities/hobbies, TV programmes.
Year 08	Geography	Rivers, Population LIDC, primary industry, secondary industry, geographical skills and fieldwork are developed throughout the topics.
Year 08	German	(1) Holidays: comparing a place how it is now and how it used to be, talking about past holidays, problems there may have been, modes of transport and the weather. (2) Free time: movies, TV programmes, reading preferences, screen time. (3) Healthy Living: typical breakfast meals, traditional German food, understanding recipes, healthy lifestyles. (4) School Trips: rules in youth hostels, daily routine, understanding/giving directions, describing festivals. (5) Social Events: clothes & fashion styles and getting ready to go out, plans for a date and talking about how a date went.
Year 08	History	(a) The 17th Century: A truly traumatic time for all? Why did England execute her king? Being & Believing: Gunpowder Plot, Plague, Fire, Witchcraft, Crime & Punishment. (b) What was the most important breakthrough in Surgery? (c) Britain was the empire of the world: How did the British Empire impact the globe? Inc. Slavery (d) Britain was the engine of the world: How did the IR change lives for people in Britain? Was the Industrial Revolution a Revolution at all? (e) Terrorism: a 21st Century Phenomenon?

<b>Year 08</b>	<b>Mathematics</b>	Number 1 (3 weeks), Algebra 1 (2 weeks), Pythagoras (2 weeks), trigonometry (3 weeks), circle theorems (2 weeks), algebra 2 (6 weeks), probability (2 weeks), statistics (3 weeks), kinematics (5 weeks), functions (3 weeks), inequalities (2 weeks)
<b>Year 08</b>	<b>Music</b>	Students begin the year with a project on West African rhythmic ideas. They then move on to tones and semitones; scales (major, minor and chromatic) are explored through performance. Blues, Jazz and Rock & Roll chart the evolution and development of popular music through practical exploration on a variety of instruments. Performance skills, both individual and ensemble are developed throughout the year along with contextual study and theoretical concepts. Students will have up to 20 weeks of free instrumental tuition on either guitar, or a brass, string or woodwind instrument.
<b>Year 08</b>	<b>Physical Education and Sport</b>	All students have an hour a week of core physical education activities. They build on Year 7 skills in Badminton, Basketball, Cricket, Gymnastics, fitness, and Tennis. Pupils have one afternoon a week of sport: in the winter the boys play rugby; in summer they play cricket and do athletics. The girls play netball and in the winter play cricket and athletics.
<b>Year 08</b>	<b>Physics</b>	Unit 1 - Energy and Energy Resources, Unit 2 - Heat (Expansion of materials, heat transfer and applications), Unit 3 - Light (Refraction, internal reflection and colour), Unit 4 - Density and Pressure, Unit 5 - Solar System, Stars and the Universe.
<b>Year 08</b>	<b>PSHCE</b>	pupils acquire the knowledge, understanding and skills they need to manage their lives and thrive as individuals, family members and members of society. Topics include Relationships and Sex Education, Drug and Alcohol Awareness, Peer Pressure, Study Skills and Positive Mental Health. A number of citizenship themes are covered, including the role and functioning of parliament, the rule of law, and the functioning of democracy
<b>Year 08</b>	<b>Religious Studies</b>	Year 8 focuses on Hinduism, Buddhism and Sikhi, including a study of their history, beliefs and practices. Term 1: Hinduism. Term 2: Buddhism. Term 3: Sikhi.
<b>Year 09</b>	<b>Art</b>	"Green Man project" looking at original collage, IT development, surface pattern and repeat techniques alongside graphic design. Photography for graphics and as a discrete skill. Still life, landscape and portrait elements are included alongside experimental approaches to image design and making. Development of a photographic "comic book" using toys or small-scale figures. A study of Op Art techniques combined with materials control exercises.
<b>Year 09</b>	<b>Biology</b>	Following Edexcel Biology specification: Unit 1- Key concepts; Unit 2- Cells and control; Core practical and introduction to DNA. Practical and scientific skills are embedded within each of the units, taught throughout the year.
<b>Year 09</b>	<b>Chemistry</b>	(1) Periodic Table review (2) Elements and molecules (3) Binary and polyatomic ions and ionic formulae (4) Practical skills and writing chemical equations (5) Acids, Bases, neutralisation and indicators (6) Acids: pH, strong vs weak, Concentrated vs dilute, Reactions of (7) Metals and metal reactivity (8) Redox and extracting metals (9) Review of equations within identifying different types of reaction (10) Transition metals, Corrosion, Sustainability and recycling.
<b>Year 09</b>	<b>Citizenship</b>	The pupils learn about the tax system and personal loans. They explore aspects of Brexit, including the role of referenda in democracies and discuss the role and importance of British values.
<b>Year 09</b>	<b>Design and Technology</b>	Exploded isometric sketching and rendering, product analysis, defining user groups, working properties of materials (metals); CAD (packaging and logo design), iterative design, card modelling; polymer processes (vacuum forming and line bending).
<b>Year 09</b>	<b>Drama</b>	Pupils study basic performance skills in the style of naturalistic acting before being introduced to Mime and Melodrama. They implement the following techniques into performances: Clocking Out, Centring, Exaggerated gesture, Slapstick Comedy (including Stage Combat) and Chase scenes. In the Spring Term they devise using stimuli which is focused on the Miners' Strike and then the Hillsborough Disaster. They learn how to use still images and thought tracking in performance. Finally, in the summer term, they write a live theatre review having watched a production of 'Peter Pan'. They develop a good understanding of how they use their performance skills to communicate meaning. Before they break up, they look briefly at practitioners and performance styles including Brecht's epic theatre and physical theatre.
<b>Year 09</b>	<b>English</b>	All pupils follow a course of core units, reading, writing and spoken English. The core units cover: 'Fear and Vengeance' - Comparative study of short stories; 'WW1 poetry' -Language analysis/comparison; 'Romeo and Juliet' - Preparation for GCSE Shakespeare; 'Dystopia' - Preparation for English Language GCSE; Woman in Black; - Preparation for GCSE prose analysis and media. This units all help to ensure that pupils are ready for their GCSE studies.
<b>Year 09</b>	<b>French</b>	Identity and culture: Free time activities, Cinema and TV, Music, Reading Technology in everyday life, Social media, Mobile technology, Current and future study and employment: My studies, Life at school/College, Revision/Preparation for Summer exams, Career choices and ambitions Project based activities (Customs & Careers)
<b>Year 09</b>	<b>Geography</b>	Natural hazards (10 weeks), global environments (10), Fieldwork focus (9), distinctive landscapes (5)
<b>Year 09</b>	<b>German</b>	(1) Identity: role models and how they inspire us, talking about experiences and how to overcome misfortunes, body parts. (2) Free time: types of music and music bands, being in a band and describing music festivals. (3) World of Work: ambitions, what you would like to be/do and reasons for doing jobs, talking about working in a ski resort. (4) Identity: Talking about childhood & childhood activities, comparing primary and secondary school, exploring Grimm's fairy tales. (5) Identity: talking about what is most important to us, age limits, comparing life now and in the past, discussing how we can make a difference.
<b>Year 09</b>	<b>History</b>	(a) The 20th Century: simply a century of bloodshed? Was the Great War, the war to end all wars? (b) Was the Treaty of Versailles a complete disaster? What was the short & long term significance of the ToV? (c) When did WW2 become inevitable? What was life like in Nazi Germany? (d) The Holocaust: a different type of warfare? Who was the biggest 'monster' of the 21st Century: Hitler, Stalin or Mussolini? (e)GCSE Paper 1a. Why did tsarist Russia come to an end? The Bolsheviks: saviours of Petrograd? How did Lenin establish the USSR as a communist state? Was Stalin a disaster for the USSR?
<b>Year 09</b>	<b>Mathematics</b>	Number (2½ Weeks), Algebra 1 (2½ Weeks), Pythagoras (2 Weeks), Trigonometry and Similarity (2½ Weeks), Circle Theorems (2½ Weeks), Algebra 2 (5 Weeks), Probability (2 Weeks), Statistics (3 Weeks), Kinematics (4 Weeks), Functions (3 Weeks), Inequalities (1 week), Recurring Decimals to Fraction (1 week)
<b>Year 09</b>	<b>Music</b>	The year begins with a project on Caribbean music, focusing on Calypso, Ska and Reggae music. Musical Theatre is then studied through individual and ensemble performance based on 'Chicago'. Composition then becomes the main focus with work on Variation Form, Ground Bass, Minimalism and Music for Film to prepare the students for Areas of Study in GCSE Music.
<b>Year 09</b>	<b>Physical Education and Sport</b>	All students have an hour a week of core physical education activities. They build on Year 8 skills in Badminton, Basketball, Cricket, table tennis, fitness, and Tennis. In games pupils in year 9 are given an option. The boys will selected between rugby and hockey. In the summer they will select between cricket and athletics.
<b>Year 09</b>	<b>Physics</b>	First Year of AQA GCSE Physics syllabus: Unit 1 - Forces part 1 (types of force, vectors, gravity, Hookes law, analysis motion graphs), Unit 2 - Electricity part 1 (static electricity, current, resistance, components, series circuits), Unit 3 - Energy part 1 (work done, energy transfers, power, efficiency, energy resources), Unit 4 - Particle model of matter part 1 (density, change of state, internal energy), GCSE required practical's on specified experiments take place throughout the year.

Year 09	PSHCE	Pupils acquire the knowledge, understanding and skills they need to manage their lives and thrive as individuals , family members and members of society. Topics include Relationships and Sex Education, Drug and Alcohol Awareness, Peer Pressure, Study Skills and (but not restricted to) Positive Mental Health.
Year 09	Religious Studies	Year 9 focuses on Philosophy of Religion, Ethics, and the three Abrahamic faiths (Judaism, Christianity and Islam). Term 1: Philosophy of Religion, exploring the problem of evil and suffering and religious responses to evil. Term 2: Introduction to ethics and a range of ethical theories. Term 3 - The three Abrahamic faiths focusing on the history, beliefs and practices of each religion.
Year 10	Art (GCSE)	Support Studies development consisting of two projects. Project 1 on Cubism, including introduction to materials and techniques, development of study pieces leading to original work. Project two is photography and graphic design. Project Starting in March/April is development of a self-directed project. Project proposals followed by practical development, research, critical analysis and the production of concept ideas to be further developed in year 11.
Year 10	Biology (GCSE)	Unit 3- Genetics; Unit 4- Natural selection and Evolution ; Unit 5- Health and disease; Unit 6- Plant structures and their functions
Year 10	Business (GCSE)	The role of enterprise and entrepreneurship (2weeks), Business aims and objectives (1week), Business planning (2weeks), Business Ownership (3weeks), Business stakeholders (1week), The role of marketing (1week), Market research (3weeks), Market segmentation (2weeks), Marketing Mix (5weeks), Sales process and customer service (3weeks), Consumer laws in the UK (2weeks), The role of HR (1week), Organsational structures and different ways of working (3weeks), Communication in Business (2weeks), Recruitment and Selection process (3weeks), Motivation and Retention (2weeks), Training and Development (1week), Employment law (1week)
Year 10	Chemistry (GCSE)	Review Y9 - Acids, Bases & Salts [1 week]; Making salts, including core practical [4 weeks]; Mole calculations [5 weeks]; Energy and Rates of Reactions [4 weeks]; Chemical Equilibria [4]; Structure and Properties [5]; Electrolysis [4]; Organic Chemistry - alkanes and alkenes [5 weeks]
Year 10	Computer Science (GCSE)	Systems architecture, Machine code and Assembly Language, Memory and storage, Programming techniques, Computational thinking, Algorithms, Data representation, Computational logic, Programming project
Year 10	Design & Technology (GCSE)	New and emerging technologies, systems approach to designing, developments in new materials, selection of materials and their properties, design strategies, research methods, specialist techniques and processes, designing and making prototypes
Year 10	Drama (GCSE)	Pupils are firstly introduced to Section A of the AQA Component 1 exam where they learn about stage configurations, stage positions and roles and responsibilities in the Theatre industry. Following this, they participate in a range of workshops focusing on a variety of different performance styles including Brecht's epic theatre, melodrama and physical theatre. They are then introduced to their stimuli for their devising exam (worth 40% of their final GCSE) and work on devising a piece and their coursework for most of the year. Before they break up, they read Blood Brothers and begin to look at exam technique.
Year 10	English (GCSE)	Pupils are taught how to respond to the English Language GCSE Papers. They are taught the skills they will need for each of the questions. Pupils also study GCSE English Literature. They will study An Inspector Calls and answer a practice question. Pupils will begin to study some of the poems from 'The Power and Conflict' collection. They will study Macbeth at the end of the year; their mock exam will be based on this topic.
Year 10	French (GCSE)	Identity and culture: Me, my family and friends, Relationships with family and friends, Local, national, international and global areas of interest: Home, town, neighbourhood and region, Global issues, The environment, Social issues (Charity work/voluntary work/Homelessness/poverty), Revision/Preparation for Summer exams, Customs and festivals in French-speaking countries/communities Project based activities (Customs & Careers)
Year 10	Geography (GCSE)	Distinctive landscapes cont (4), urban futures (7), global hazards (9), UK in the 21 <sup>st</sup> century (7), fieldwork (3), Geographical decision making (3)
Year 10	German (GCSE)	(1) School: school subjects & clothes, school items, school day/timetables, school rules, the school system in Germany, school trips and what you are/aren't looking forward to in school. (2) Freetime: leisure activities, reading habits, music, films, TV programmes, sport, celebrations & festivals. (3) Family & Relationships: what makes a good friend, describing relationships, discussing different views on marriage, weekend activities and comparing the life as a child with the life now. (4) Local areas: describing the house/home and having guests; Healthy Living: describing food & drinks, traditional German meals, daily routine and how to stay fit & healthy; Modern Technology: using social media & modern technology and the advantages/disadvantages. (5) Holidays: modes of transport, making hotel bookings, buying train tickets, describing types of accommodations, describing possible problems, giving/understanding directions, ordering in a restaurant, shopping for souvenirs.
Year 10	History (GCSE)	(a) GCSE Paper 1a. Recap – Russia: a revolutionary society? (b) GCSE Paper 1b. Why was the war in Korea an international crisis? The Vietnam War: Ho chi Minh & Humiliation (c) GCSE Paper 2a. The Power & The People: Economy; The Role of the Individual; Religion (d) GCSE Paper 2b. Elizabethan England.
Year 10	Mathematics (GCSE)	Rearranging formulae & functions (4 weeks), indices (& with algebra) (2 weeks), probability (tree & Venn, set notation) (3 weeks), factorisation (2 weeks), trigonometry (2 weeks), graphs of functions (1.5 weeks), solving equations using graphs and real life graphs 2.5 weeks) , proportion (2 weeks), solving quadratics (4 weeks), representing data (3 weeks), algebraic fractions (4 weeks), parallel & perpendicular lines (1 week), simultaneous equations (2 weeks), equation of a circle & tangents (2 weeks), advanced trigonometry (2 weeks)
Year 10	Music (GCSE)	Area of Study 1: Musical Forms and Devices (including Bach's Badinerie as a set work). Area of Study 3: Film Music. Area of Study 4: Popular Music (including the set work 'Africa' by Toto. All areas of study are taught holistically with listening, composing and performing activates integrated with aspects of musical theory and contextual understanding as well as wider listening.
Year 10	Physical Education and Sport (core)	All students have an hour a week of core physical education activities. They continue to develop their skills in badminton, Basketball, Cricket, table tennis, fitness, and Tennis. Pupils have one afternoon a week of sport: in the winter they play rugby or hockey; in summer they play cricket or athletics continuing with their selected option from year 9.
Year 10	Physical Education (GCSE)	Intro and the structure and function of the skeletal system (2 weeks); The structure and function of the muscular system (2 weeks); Movement analysis (2 weeks); The cardiovascular and respiratory systems (2 weeks); The effects of exercise on the body systems (2 weeks); Components of fitness s(2 weeks); Applying the principles of training (2 weeks); Preventing injury in physical activity and training (2 weeks); Engagement patterns of different social groups in physical activities (2weeks); Commercialisation of physical activity and sport (1 week); Ethical and socio-cultural issues in physical activity and sport (2 weeks); Characteristics of skillful movement and classification of skills (1 week); coursework (7 weeks spread over two blocks); Goal setting (1 week); Mental preparation (1 week); Types of Guidance and feedback (1 week).

<b>Year 10</b>	<b>Physics (GCSE)</b>	Second Year of AQA GCSE Physics syllabus: Unit 1 - Forces part 2 (Newton's laws, stopping and braking distances for vehicles), Unit 2 - Energy part 2 (Kinetic energy, potential energy, conservation of energy, specific heat capacity, latent heat), Unit 3 - Waves (measurements, electromagnetic waves, sound waves, ultrasound, seismic waves, refraction, lenses), Unit 4 - Electricity part 2 (parallel circuits, energy and power in circuits, national grid, mains electricity and safety). Preparation for End of Year Examination on Units 1-4 and Year 9 work. GCSE required practical's on specified experiments take place throughout the year.
<b>Year 10</b>	<b>PSHCE</b>	Topics include Relationships and Sex Education, Drug and Alcohol Awareness, Peer Pressure, Study Skills and Positive Mental Health.
<b>Year 10</b>	<b>Religious Studies (GCSE)</b>	Pupils are taught the AQA GCSE Religious Studies specification A focusing on the study of Christianity, Islam and four philosophical and ethical themes, including the existence of God, religion and life, war and peace, and crime and punishment.
<b>Year 11</b>	<b>Art (GCSE)</b>	Continued development of self-directed study (September to December). Focus on developing a final outcome as a summation of the work that has gone before. Deadline to be start of January of year 11. Exam papers distributed January year 11 for immediate development up to the end of April. 10 hour exam to take place before end of April/Start of May.
<b>Year 11</b>	<b>Biology (GCSE)</b>	Unit 6 – Consolidation of plant structures and their functions, including core practicals; Unit 7- Control and Homeostasis; Unit 8- Exchange and Transport ; Unit 9- Ecosystems and material cycles ; Revision, review of core practicals, exam practice to study leave.
<b>Year 11</b>	<b>Business (GCSE)</b>	Production process (2weeks), Quality of goods and services (1week), Business location (2weeks), Working with suppliers (1week), Business growth (2weeks), The role of the finance function (1week), Sources of finance (2weeks), Revenue, Costs, Profit and Loss (3weeks), Break Even analysis (2weeks), Cash and cash flow (2weeks), Ethical and Environmental considerations (2week), The economic climate (2weeks), Globalisation (3weeks), The Interdependence nature of businesses (3weeks)
<b>Year 11</b>	<b>Chemistry (GCSE)</b>	Review Y10 - Mole Calculations [1 week]; Review Y10 - Rates of reactions, including core practicals [2 weeks]; Further Mole Calculations - Atom Economy and Empirical Formulae [2 weeks]; Periodic Table - Groups 1, 7 & 0 [3 weeks]; Review Y9 - Reactivity Series and Extraction of Metals [2 weeks]; Qualitative Analysis, including core practicals [3 weeks]; Earth and Atmospheric Science [3 weeks]; Purification and Separation, including core practicals [2 weeks]; Avogadro's Constant, Nano-technology and Material Science [2 weeks]; Organic part 2, including core practical [3 weeks]; Chemical and Fuel Cells [1 week]; Review Y9 - Neutralisation, Titrations, including core practical [2 weeks]
<b>Year 11</b>	<b>Computer Science (GCSE)</b>	Wired and wireless networks, Network topologies and protocols, System security, Producing robust programs, Translators, System software, Databases and SQL, Ethical, legal, moral and cultural issues, Exam preparation
<b>Year 11</b>	<b>Design and Technology (GCSE)</b>	Energy generation and storage, mechanical devices, ecological and social footprint, using and working with materials, forces and stresses, the work of others designers, completion of design and make project (NEA) in response to AQA set contexts.
<b>Year 11</b>	<b>Drama (GCSE)</b>	Students watch a live theatre production and write a review. They continue their study of Blood Brothers, alongside staging two extracts from a play they are cast in. They must learn lines and effectively perform as a character different to themselves to a visiting examiner. They complete Component 1 and Component 3. Students also receive guidance from industry professionals to help them progress in the industry after their education.
<b>Year 11</b>	<b>English (GCSE)</b>	Pupils will study <i>Dr Jekyll and Mr Hyde</i> . They revise and sit Paper 2, English Language for the November Mock. They will complete the <i>Power and Conflict</i> poems and revise unseen poetry. They will sit Paper 2, Literature in February.
<b>Year 11</b>	<b>French (GCSE)</b>	Local, national, international and global areas of interest: Continue Social Issues, Travel and tourism, Free activities (Identity and culture), Food and eating out, Sport, Healthy living Revision/examination focus, Study Leave (May) – End of course examination
<b>Year 11</b>	<b>Geography (GCSE)</b>	Dynamic development (7), Sustaining ecosystems (6), resource reliance (5), Changing climate (4), Fieldwork (2), Geographical decision making (1), revision
<b>Year 11</b>	<b>German (GCSE)</b>	(1) Holidays: popular holiday destinations, the weather, different types of holidays, holiday experiences, holiday plans; International, National and Local Areas: describing where people live, advantages & disadvantages of where you live. (2) World of Work: jobs & places of work, job descriptions, job applications, dream jobs, languages & work. (3) Social Events: international festivals & events, ways of being involved in sporting events, advantages & disadvantages of global sporting events; Social Issues: how social problems affect young people, homelessness & poverty; The Environment: what we do at school to be environmentally friendly, what countries can do to become more environmentally friendly, discussing international & local campaigns to protect nature. (4) Revision and Exam Preparation.
<b>Year 11</b>	<b>History (GCSE)</b>	(a) GCSE Paper 2b. Elizabethan England & The Historical Environment; Elizabethan England & The Historical Environment; (b) Revision.
<b>Year 11</b>	<b>Mathematics (GCSE)</b>	3D Pythagoras' Theorem & trigonometry (1 week), fractions, recurring decimals and surds (2 weeks), accuracy (1 week), transformations of graphs (3 weeks), advanced mensuration (3 weeks), circle theorems (advanced) (3 weeks), proof – congruency (1 week), proof – algebraic (2 weeks), exponential functions & compound interest (1 week), advanced trig graphs and applications (2 weeks), vectors (2 weeks), inequalities (2 weeks), sequences (2 weeks), populations & samples (1 week), variety of revision activities (4 weeks)
<b>Year 11</b>	<b>Music (GCSE)</b>	Area of Study 2: Music for Ensemble (chamber music, Jazz & Blues and Musical Theatre). Coursework composing (2 compositions) and Performing (2 Performances). Revision and exam preparation.
<b>Year 11</b>	<b>Physical Education and Sport (core)</b>	All students have an hour a week of core physical education activities. They continue to develop their skills in badminton, Basketball, Cricket, table tennis, volleyball, and Tennis. Pupils have one afternoon a week of sport: in the winter they play rugby or hockey; in summer they play cricket or athletics.
<b>Year 11</b>	<b>Physical Education (GCSE)</b>	Recap from Year 10 (2 weeks); Coursework (6 weeks); Health fitness and well-being (5 weeks); Diet and nutrition (1 week); revision (rest of course).
<b>Year 11</b>	<b>Physics (GCSE)</b>	Final Year of AQA GCSE Physics syllabus: Unit 1 - Forces part 3 (Moments, fluid pressure and upthrust, momentum), Unit 2 - Particle model of matter part 2 (gas laws), Preparation for Mock GCSE Examination on Units 1-2 and Year 9 and 10 work, Unit 3 - Magnetism and Electromagnetism (magnetic fields, motor effect, induction, generators and transformers), Unit 4 - Atomic Structure (isotopes, radioactivity, nuclear power), Unit 5 - Space Physics (orbits, evolution of stars, redshift, cosmology). Preparation for final GCSE examinations (2 papers). GCSE required practical's on specified experiments take place throughout the year.
<b>Year 11</b>	<b>PSHCE</b>	Pupils acquire the knowledge, understanding and skills they need to manage their lives and thrive as individuals , family members and members of society. Topics include Relationships and Sex Education, Drug and Alcohol Awareness, Peer Pressure, Study Skills and (but not restricted to) Positive Mental Health.

Year 11	Religious Studies (GCSE)	Pupils are taught the AQA GCSE Religious Studies specification A focusing on the study of Christianity, Islam and four philosophical and ethical themes, including the existence of God, religion and life, war and peace, and crime and punishment.
Year 12	Art	Development of a range of techniques and approaches as an introduction to the subject at AS level. Areas of focus to include thematic collage, photo shop development, photography, image design, observation from direct sources, experimental painting techniques and practical study of other artists and designers. Development of self-directed project work starting October and continuing through to April. As students are entered as Art, Craft and Design candidates, they may focus on any of the following: - Fine Art, Graphic Design, Illustration and Photography/Lens Based Media as well as a combination of these disciplines.
Year 12	Biology	Following OCR Biology A: Module 2- Foundations in Biology ; Module 3- Exchange and Transport ; Module 4- Classification, Biodiversity and Disease, Module 6-Ecosystems/ Population and Sustainability
Year 12	Business	Market, Market research and Market positioning (2weeks), The market - demand and supply models (3weeks), Product/service design (1week), Marketing mix and strategy (4weeks), Managing people (3weeks), Entrepreneurs and Leaders (1week), Business objectives (1week), Raising finance (2weeks), Financial planning and strategy (6weeks) , Resource management (2weeks), External Influences (4weeks)
Year 12	Chemistry	(1) Atoms and Reactions (2) Electrons, Bonding and Structure (3) The Periodic Table (4) Physical Chemistry Foundations (5) Hydrocarbons, Alcohols, Haloalkanes and Analysis (6) Born Haber Cycles (7) Acids, Bases, pH and Buffers (8) Rates, including Arrhenius.
Year 12	Classical civilisation	Weeks 1 - 10 'World of the Hero' (paper 1) core text: Homer's Odyssey. Weeks 11 - 21 'Greek theatre'(paper 2). Core texts: Bacchae - Euripides; Oedipus Rex - Sophocles; Frogs - Aristophanes. Drama visual sources from a prescribed list taught against the relevant texts.
Year 12	Computer Science	Datatypes, Advanced binary arithmetic, Data structures, Programming techniques, Boolean logic, Algorithms, Compression and encryption, Web technology, Databases, Data mining, Object oriented Programming, Computational thinking, Software development, Programming project design, analysis and development.
Year 12	Design and Technology	Graphic techniques, design methods and processes, product analysis, performance characteristics of materials, selecting appropriate tools, equipment and processes, responsible design; forming, redistribution and addition processes, design for manufacture, modern and industrial commercial practice, design for manufacture and project management.
Year 12	Drama	Students study their set text, Rutherford and Son. They then stage an extract from a play of their choice and perform as a character different to themselves. They write about the process, documenting trial and error. They then participate in workshops, exploring a range of practitioner's techniques, including Artaud, Berkoff, Stanislavski, Boal and Brecht. They then apply the techniques of a chosen practitioner and reinterpret an extract from the musical, Into the Woods or the play, Tusk . Alongside this, they submit a creative log and an evaluation.
Year 12	Economics	Microeconomics: The economic problem and allocation of resources (3weeks), specialisation and trade (2weeks), Demand and Supply models (4weeks), Consumer and Producer surplus (1week), Elasticity concepts (4weeks), The concept of margin (1 week), Market Failure and Externalities (4weeks) Macroeconomics: Circular flow of income and Aggregate demand (2weeks), Aggregate supply (2weeks) The multiplier and the Accelerator theories (2weeks), Economic growth and Development (3weeks), Employment (2weeks), Inflation (2weeks), Balance of payments (2weeks), Income distribution (1week), Phillips curve (1week), Economic policies and policy conflicts (5weeks)
Year 12	English	Pupils will study <i>A Streetcar Named Desire</i> and <i>Poetry of the Decade</i> in the first term. They will answer a question on <i>Streetcar</i> in the Summer Mock exam. They will study core novels ( <i>The Handmaid's Tale</i> and <i>Frankenstein</i> ) in the spring term. They will revise unseen poetry and complete a poetry question in the summer Mock Exam. Pupils will complete wider reading in the summer term and submit their coursework by the end of the academic year.
Year 12	French	Being a young person in a French-speaking society: Families and citizenship, Youth trends and personal identity, Education and employment opportunities, Introduction to French films with 'Intouchable', Understanding the French-speaking world: Regional culture and heritage in France, French-speaking countries and communities, Media, art, film and music in the French speaking world (January, Exam week/May, Exam week), Summer holidays (Preparation practice for Autumn term UCAS Assessment)
Year 12	Further Mathematics	Pure: Complex numbers (5 weeks), matrices (4 weeks), series (3 weeks), roots of polynomials (3 weeks), matrix transformations (2 weeks), proof by induction (3 weeks), loci of complex numbers (2 weeks), vectors (4 weeks), volume of revolution (2 weeks) Mechanics: momentum & impulse, elastic collisions, centre of mass (4 weeks), work & energy (5 weeks), motion in a circle (4 weeks), variable acceleration (4 weeks)
Year 12	Extended Project Qualification	Taught Skills sessions in term 1. production of an original piece of research on their own, write a 5,000 word research report or artefact, and do a presentation to their peers.
Year 12	Geography	Glaciation (23), Climate Change (6), NEA preparation (1) Migration & Human Rights (16), Changing Spaces; Making Places (12), Fieldwork and Non Examined Assessment
Year 12	Geology	Weeks 1 - 8: Module 1 – Development of practical skills in geology ; Weeks 9 - 20: Module 2 – Foundations in geology; Weeks 21 - 30: Module 3 – Global tectonics; Weeks 30 - 39: Module 4 – Interpreting the past
Year 12	German	Topics: Family & relationships (1 week), School and further education (1 ½ weeks), The world of work (2 weeks), Being a good citizen (1 ½ weeks), Technology (2 weeks), German film & music scene (1 week), Trends in German Youth Culture (1 ½ weeks), Traditions (1 week), Art & Architecture (1 ½ weeks), Tourist sites in Germany (1 week). Movie studies (4 weeks). Grammar: Relative clauses, adjectival agreements, the passive, the genitive case.
Year 12	Politics	UK Politics: Democracy and Participation (3 weeks); Political Parties (3 weeks); Electoral Systems (3 weeks); Voting Behaviour and the Media (3 weeks). Core Ideologies: Conservatism (3 weeks); Liberalism (3 weeks); Socialism (3 weeks). UK Government: The Constitution (2 weeks); Parliament (3 weeks); Prime Minister & Executive (3 weeks); Relations Between Branches (2 weeks). Non-Core Ideologies: Students produce a Powerpoint presentation and essay on the ideology of their choice (4 weeks + summer holiday to finish)
Year 12	History	The origins of the British Empire prior to 1857 including reasons for 'The Swing to the East'. India: The Indian Mutiny – causes and consequences. British rule in India 1857 to 1914. Africa: Expansion into Africa, notably Britain's role in the 'Scramble for Africa'. The Boer War – causes and consequences. The impact of the Suez Canal. The Dominions: Emigration and trade. The impact of the First World War on national identity with particular reference to the Gallipoli campaign. General themes: Trade, role of the individual, attitudes to Empire 1857-1914, resistance to imperial rule.
Year 12	Lecture and PSHCE programme	The pupils have a weekly lecture on a topic of current interest, often linked to careers and destinations ,lectures and workshop sessions include RSE and PSHCE

<b>Year 12</b>	<b>Mathematics</b>	<p>Pure: Algebra (5 weeks), indices surds &amp; rationalising denominators (3 weeks), coordinate geometry (4 weeks), inequalities (1 week), circles (2 weeks), algebraic division &amp; factor theorem (1 week), trigonometry (3 weeks), binomial theorem (2 weeks), differentiation (4 weeks), vectors (2 weeks), proof (1 week), integration (3 weeks), exponentials &amp; logs (2 weeks).</p> <p>Applied follows teaching of pure: Mechanics: SUVAT (2 weeks), forces vectors Newton's 2nd Law motion in 2D connected particles and pulleys (3 weeks), variable acceleration (2 weeks). Statistics: Data collection sampling types of data large data set intro (1 week) measure of location and spread (1 week), coding (1 week), representation of data (1 week), correlation &amp; linear regression (1 week), probability (1 week), statistical distributions (1 week), Hypothesis testing (2 weeks)</p> <p>More pure teaching for A level groups in the Summer Term follow the completion of the 1st year applied teaching/AS course: Proof algebraic &amp; partial fractions (2 weeks), trigonometry (2 weeks), vectors (2 weeks)</p>
<b>Year 12</b>	<b>Music</b>	The Western Classical Tradition with a focus on the development of the Symphony from 1750 to 1820. The set work is Haydn Symphony 104 (movements 1 and 2). The development of Jazz from 1920 to 1950, including early (or Trad.) Jazz, Swing and Be-bop. Coursework composing (2 compositions) and Performing (2 Performances). Revision and exam preparation.
<b>Year 12</b>	<b>Physical Education</b>	<p>Skill acquisition including: Classification of skills , Types and methods of practice , Guidance , Feedback , Stages of Learning , Motivation and arousal, NEA on Evaluation and Analysis of Performance , Types of Transfer , Theories of learning . Individual differences including: Personality , Attitudes , Anxiety, Aggression, Social facilitation and social inhibition, Group and team dynamics , Goal Setting .</p> <p>Sport and society including: How social and cultural factors shaped the characteristics of and participation in sports and pastimes in pre-industrial Britain ( 2 weeks), in post 1850 industrial Britain (1 week), in 20th century Britain ( 2 weeks), and in the 21st century ( 1 week); The Modern Olympic Games ( 2 weeks); Hosting global sporting events (1 week) .</p> <p>In addition, these topics are also taught: Skeletal and muscular systems (3weeks), Cardio vascular and respiratory systems (4 weeks), Diet and nutrition (2 weeks) Preparation and training (4 weeks), Biomechanical principles (6 weeks).</p>
<b>Year 12</b>	<b>Physics</b>	First Year of AQA A level Physics syllabus: Unit 1 - Measurement and Errors, Unit 2 - Particle physics (particle zoo, fundamental forces, conservation laws) and quantum effects (photoelectricity, energy levels, wave-particle duality), Preparation for January internal examination on Units 1-2, Unit 3 - Waves (progressive waves, standing waves, refraction, diffraction), Unit 4 - Mechanics (statics, analysis of motion, Newton's laws, work/energy/power, momentum, materials), Preparation for June internal examination on Units 1-4, Unit 5 - Electricity (circuits, current, potential difference, power, components, series/parallel, resistivity, EMF). A level required practical's on specified experiments take place throughout the year
<b>Year 12</b>	<b>Psychology</b>	Year one of the course covers Paper 1 topics. These are social influence, memory, attachment and psychopathology. In the latter part of the year students will cover research methods, approaches and the first half of the biopsychology topic. These topics are studied in preparation for Paper 2.
<b>Year 12</b>	<b>Religious Studies</b>	OCR Religious Studies A Level. Philosophy of Religion, Development of Christian Thought, and Ethics.
<b>Year 12</b>	<b>Sociology</b>	The course covers families and households firstly. Students will then progress on to education with theory and methods. Upon moving in to year two, students will study the media and then crime and deviance with theory and methods. Sociological theory and research methods is taught in-depth throughout
<b>Year 12</b>	<b>Sport (Core)</b>	Pupils have one afternoon a week of sport: a range of sports are available, including rugby, football, hockey, netball, badminton, basketball, table tennis, fitness and cross-country running.
<b>Year 13</b>	<b>Art</b>	A level students continue development of their portfolio projects. These are highly self-directed projects that will include a variety of materials and techniques use and re completely individual to that student. Deadline is start of February when the A level exam is distributed. Exam is then developed up to the end of April, when a 15 hour controlled exam takes place.
<b>Year 13</b>	<b>Biology</b>	Module 5- Communication , Homeostasis and Energy ; Module 6- Genetics, Evolution and Ecosystems ; Revision, review of core practicals, exam practice to study leave.
<b>Year 13</b>	<b>Business</b>	Business objectives and strategy (5weeks), Business growth (1week), Decision making techniques (4weeks), Assessing competitiveness (2weeks), HR and change management (2weeks), Globalisation (5weeks), Global markets and business expansion (5weeks), Multinational Companies – MNCs (4weeks)
<b>Year 13</b>	<b>Chemistry</b>	(1) Physical Chemistry Review and kp (2) Entropy and Energy (3) Carbonyls (4) carboxylic acids and derivatives (5) Nitrogen compounds (6) Redox and electrochemical cells (7) Redox Titrations (7) Transition elements (8) Aromatic compounds (9) Polymers (10) Synthetic routes (11) NMR and combined techniques
<b>Year 13</b>	<b>Computer Science</b>	Programming project testing and evaluation, Systems architecture, Input, output and storage, Networks, Systems software, Applications generation, Types of programming language, Computational methods, Computing related legislation, Moral and ethical issues
<b>Year 13</b>	<b>Design and Technology</b>	Performance characteristics of materials, use of finishes, digital design and manufacture, protecting design and intellectual properties, feasibility studies, enterprise and marketing, detailed product study, completion of significant design and make project (NEA).
<b>Year 13</b>	<b>Economics</b>	<p>Microeconomics: Business objectives (2weeks), costs and economies of scale (3weeks), revenue and profits (2weeks), market structure (5weeks), The labour market (4weeks)</p> <p>Macroeconomics: International trade (2weeks), Globalisation (2weeks), trade policies and negotiations (2weeks), The financial sector (3weeks)</p>
<b>Year 13</b>	<b>English</b>	Pupils study <i>Othello</i> and <i>The Wife of Bath's Prologue and Tale</i> . They will complete questions on these two texts in the January Mocks. Pupils then complete any poems that need covering before focusing on revision.
<b>Year 13</b>	<b>Further Mathematics</b>	<p>Pure: Complex numbers (2 weeks), series (2 weeks), Maclaurin expansion (3 weeks), hyperbolic functions (2 weeks), polar coordinates (3 weeks), differentiating &amp; integrating hyperbolics (3 weeks), differential equations (6 weeks), methods in calculus (4 weeks), volume of revolution (2 weeks).</p> <p>Mechanics: Elastic collisions in 2D (4 weeks), elastic strings and springs (4 weeks), further centres of mass (4 weeks), further dynamics (5 weeks), variable acceleration (4 weeks).</p>
<b>Year 13</b>	<b>Geography</b>	Climate Change cont. (12), ELSS: Earth Life Support Systems (11), NEA (2 weeks' worth of lessons spread across first half of term) Changing Spaces; Making Places cont.(8), Hazards (17)

<b>Year 13</b>	<b>Politics</b>	US Politics: Democracy and Participation – Voting Behaviour in the USA; Federalism; Pluralism; Interest Groups; Lobbying; Access Points; Iron Triangles; US Political Parties (6 weeks) Comparison with Voting Behaviour in the UK, UK Pressure Groups; UK Political Parties; US Federalism vs UK Quasi-Federalism (3 weeks). US Elections – the importance of the Invisible Primary; primaries and caucuses; the National Nominating Conventions; the Electoral College; factors influencing Presidential elections; Congressional Elections (7 weeks) Comparison of UK and US Elections (1 week). US Government – The Constitution; Congress; Presidency; Supreme Court (12 weeks); Comparison of UK Constitution vs US; UK Parliament vs US Congress; President’s power vs UK PM; UK vs US Supreme Courts (3 weeks)
<b>Year 13</b>	<b>History</b>	The impact of the First World War on ties within the British Empire; case studies include India, the dominions and Ireland. India: The growth of Indian nationalism in the inter war years. The impact of the Second World War on Indian nationalism. Independence and partition. Africa: The emergence of African nationalism, particularly after the Second World War. Case studies include Ghana, Kenya (the Mau Mau campaign) and Rhodesia. The Dominions and Asia: Emigration and trade. The impact of the Second World War on national identity - particularly in South East Asia. General themes: Trade, the role of the individual, attitudes to Empire 1914 - 1967, resistance to imperial rule and the retreat from Empire. Assessment: Students complete a variety of essays as well as evaluating a number of interpretations by historians.  Students also submit an independently researched 3,500 - 4, 500 word historical investigation as their A-level coursework.
<b>Year 13</b>	<b>Lecture and PSHCE programme</b>	The pupils have a weekly lecture on a topic of current interest, often linked to careers and destinations.
<b>Year 13</b>	<b>Mathematics</b>	Maths - teaching is usually split equally between two teachers: Pure: Functions (4 weeks), trigonometry (6 weeks), Binomial (2 weeks), parametric equations (2 weeks), differentiation (4 weeks), sequences & series (3 weeks), integration (9 weeks), numerical methods (2 weeks) Applied follows teaching of pure: Mechanics: Moments (2 weeks), inclined planes & friction (2 weeks), statics (3 weeks), projectiles (1.5 weeks), further kinematics (1.5 weeks). Statistics: regression & correlation (1 week), hypothesis testing (1 week), set notation conditional probability tree & Venn diagrams (2 weeks), normal distribution (5 weeks)
<b>Year 13</b>	<b>Music</b>	The Western Classical Tradition with a focus on the development of the Symphony from 1820 to 1900. The set work is Haydn Symphony 104 (movements 3 & 4) and Mendelssohn Symphony No. 4. The development of Jazz from 1920 to 1960, including early (or Trad.) Jazz, Swing, Be-bop and Cool. Coursework composing (2 compositions) and Performing (2 Performances). Music into the Twentieth Century with set works by Debussy and Poulenc. Revision and exam preparation.
<b>Year 13</b>	<b>Physics</b>	Second Year of AQA A level Physics syllabus: Unit 1a - Further Mechanics (Circular motion, simple harmonic motion, damping, resonance), Unit 1b - Thermal Physics (Specific heat capacity, latent heat, ideal gases, kinetic theory), Unit 2 - Fields (Gravity, electrostatic fields, capacitors, magnetic fields, induction), Preparation for A level mock examination on Units 1-2 and lower sixth work. Unit 3 - Nuclear Physics (isotopes, radioactive decay, half life, binding energy, mass defect, fission, fusion), Unit 4 - Option Topic (either Astrophysics or Turning Points in Physics). Preparation for final A level examinations (3 papers). A level required practical's on specified experiments take place throughout the year. CERN trip for upper sixth students in November.
<b>Year 13</b>	<b>Psychology</b>	In year two of the course students will complete biopsychology and then move on to issues and debates. The final topics for students to cover, in preparation for Paper 3, are the options topics, relationships, schizophrenia and forensic psychology.
<b>Year 13</b>	<b>Religious Studies</b>	OCR Religious Studies A Level. Philosophy of Religion, Development of Christian Thought, and Ethics.
<b>Year 13</b>	<b>Sport</b>	Pupils have one afternoon a week of sport: a range of sports are available, including rugby, football, hockey, netball, badminton, basketball, table tennis, fitness and cross-country running.