

Year 8 Curriculum Overview

	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2								
English	Sherlock Holmes - Victorian London, Crime & Detective Fiction, Key Vocabulary, Character Analysis, 19th Century Text					The Tempest - Colonialism, Elizabethan Era, Key Characters, Themes, Key Vocabulary, Quotation Analysis					Animal Farm - Russian Revolution, Orwell's life, Themes, Key Characters, Key Vocabulary, Allegorical Analysis	Descriptive Writing - Literary Techniques, Emotive Writing, Sequencing, Planning & Crafting, Vocabulary, Simile & Metaphor							
Maths	Ratio & Scale - understand / use ratio, solve proportional problems, divide in a given ratio, simplify ratio, compare ratios / fractions and understand pi / gradients as ratios	Multiplicative Change - direct proportion problems, conversion graphs, currency conversion and scale factors	Multiplying & Dividing Fractions - understand /use the reciprocal, improper fractions / mixed numbers and algebraic fractions	Algebra - substitute values in formulae, simplify and manipulate algebraic expressions (brackets, binomials, indices, common factors), rearrangement of formulae	The Cartesian Plane - four quadrants recognise/use lines of the form $y=kx$ / $y=x+b$, link to direct proportion, gradients, links to linear sequences and plot graphs of the form $y=mx+c$	Representing Data - scatter graphs, linear correlation, line of best fit, read /interpret grouped / ungrouped frequency tables and represent data, incl. in two way tables	Brackets, Equations & Inequalities - incl. directed numbers, expand single brackets, factorise in to a single bracket, expand a pair of binomials, solve equations inv. brackets, understand form / solve inequalities and identify / use formulae / identities	Sequences - generate given a rule in words or an algebraic rule and find the nth term for a linear sequence	Indices - adding / subtracting expressions with indices and using the laws of indices	Fractions & Percentages - convert between, calculate percentage increase / decrease with a multiplier, express one number as a fraction or percentage of another with or without a calculator, work with percentage change and find the original amount given the percentage	Standard Form - compare / order numbers in Standard Form, add, subtract, multiply / divide numbers in Standard Form and use a calculator with Standard Form	Number Sense - rounding, error intervals, calculate with money, convert metric units incl. for area and solve problems inv. Time	Angles - basic angle rules, angles between parallel lines, construct triangles and quadrilaterals, the sum of interior angles and circumference of circles and parts of circles	Area of Trapezia & Circles - area and perimeter of compound shapes and the area and circumference of circles and parts of circles	Line Symmetry & Reflection - symmetry and reflection in horizontal, vertical and diagonal lines	The Data Handling Cycle - questionnaires, bar charts, pie charts, line graphs, grouped quantitative data and the range	Measures of Location - the mean, median and mode, outliers and comparing distributions		
Science	Biology 3: plants and their reproduction - plant classification, pollination, sexual and asexual plant reproduction, germination and growth, breathing and respiration - aerobic/aerobic respiration, circulatory system, gas exchange/diffusion, oxygen transport in blood/tissues, unicellular organisms - carbon cycle, bacteria/fungi and decomposition		Chemistry 3: the Periodic table - atomic model, difference between physical/chemical properties, elements, compounds, mixtures, patterns in the periodic table, metals and their uses - properties, corrosion, reaction of metals with water/acids, pure metals/alloys		Physics 3: fluids - particle model, state changes, density, floating/sinking, fluid pressure, air/water resistance, aerodynamics, Earth and space - heliocentric model, solar system, gravity/weight/mass, Earth's magnetosphere		Biology 4: food and nutrition - balanced diet, deficiency diseases, digestive systems, enzyme action, absorption in small intestine, food packaging and advertising		Chemistry 4: combustion - complete/incomplete combustion, fire safety and extinguishers, oxidation, products and pollution, Greenhouse effect and climate change, rocks - sedimentary/igneous/metamorphic rocks, rock cycle		Physics 4: light - reflection/refraction, dispersion, colour/filtering, the structure of the eye and cameras, energy transfers - convection, conduction, radiation, energy efficiency and Sankey diagrams								
History	What has been the impact of migration to Britain? From 400 to present, migrant experiences and impact on Britain		Why did it take so long for people to get the vote? Focus on women (context of male suffrage below)		Did people pull together in the Second World War? Myth of the Blitz spirit, find out if the view is accurate		Why did the USA drop atomic bombs on Japan? Pre-war relationship, Pearl Harbour, weighing up various reasons, aftermath		How did the Holocaust happen? Roots of anti-Semitism, escalation of persecution and Final Solution. Use UCL resources.		How successful was the campaign for civil rights in America? Methods, key figures, their impact and longer term consequences of campaign								
Geography	Ecosystems/Savannah Grasslands - global ecosystems and their locations, life in different ecosystems compared with UK, case study on the Savannah: animals, people, climate, vegetation, sustainability		Population - global distribution, migration from Mexico to USA, push and pull factors, UK immigration, case studies including China/one child policy.		Global Issues : a focus on global concerns such as deforestation, climate change, plastic in the ocean and food waste. With detail on sustainable living and a link to sustainable tourism.		Glaciation - study of glacial processes and landforms. With a focus on the impacts of climate change and tourism.		Map skills - developing map skills: 4 and 6 figure grid references, measuring distances, latitude and longitude, contour lines and analysing photographs.		TBC due to covid recovery								
French	Weather and free time - faire/jouer, aimer + infinitive, weather, near future, complex phrases with si and quand, on peut, frequency phrases		Food and drink - manger/breire, aimer + infinitive, near future, mealtimes, healthy living, festivals, frequency phrases		Education and jobs - school subjects, opinions, jobs, travailler, je voudrais, être, option choices		Clothing and daily routine - clothes and accessories, time, reflexive verbs, activities at home, yesterday - perfect tense		Describing my house - prepositions and locations, room, furniture, j'habite, conditional, je voudrais habite, il y aurait		Holidays past and future - perfect tense, je suis allé/ j'ai visité, en/au countries, transport, weather, activities, recapping present, perfect, near future and conditional structures								
RE/PSHE	Biblical figures - Moses, Abraham, David and Goliath, Jonah, Noah, Samson and Delilah, Daniel, Joshua, Elijah			Parables - the Good Samaritan, the prodigal son, Lazarus and the rich man, miracles, sermon on the mount					Pilgrimage - Christianity and Islam, Jerusalem, Lourdes, Hajj										
	Relationships and feelings - teenage pregnancy, age of consent, sexual relationships, managing emotions, peer pressure, bullying and violence, understanding LGBT			3 x Yr 8 PSHE lessons will be delivered at the teacher's discretion throughout the year					Finances - GDP, cost of living, managing budgets, understanding National Insurance, tax, bills and rent, mortgages and loans										
ICT	Cyber Security - all aspects of Cyber Security		Bebars and Cyber Security		Programming - iteration, selection and variables, introduction to Python commands, BBC Microbit		Further Programming with Python		Photoshop- Undertaking Creative Projects		How Computers Work - input and output processes, hardware, software								
PE	Yr 8 students will have access to a range of sports and activities throughout the year, with opportunities to develop confidence, apply physical skills and engage in cooperative and competitive activity with others.																		
	Rugby, netball, gymnastics, badminton, fitness		Rugby, netball, hockey, gymnastics, badminton, handball, fitness,		Football, hockey, gymnastics, badminton, fitness, OAA (Outdoor Adventurous Activities)		Football, hockey, badminton, basketball, cross country, endball, fitness		Tennis, athletics, rounders, cricket, softball		Tennis, athletics, rounders, cricket, softball								
Technology	Year 8 groups will undertake all 6 technology topics across textiles, food and graphic/product design on rotation across the year.																		
	Textiles: Recycled bags - environmental issues, recycling/upcycling, design principles, briefs and specifications, sewing machine skills		Textiles: Monster - looking at sewing kits, design for target market, hand sewing skills, evaluation of product		Graphic design: Book making - design principles, briefs and specifications, illustration, book making skills		Year 8 Product Design - Photo Frame - design principles, responding to a design brief and specification, measuring accurately using datums, use of tools, interpreting technical drawings and wood processes & finishes.		Food 1 : Health and safety, hygiene, packaging, protein, cereals, preparation skills, using hob/oven		Food 2 : cross-contamination, yeast, carbohydrates, fats, cake structures, religion, seasonal cooking, continued practical skills								
Year 8 groups will undertake Art, Music and Drama on rotation across the year to include 2 units in each subject																			
Art	Pop Art - observational drawing, form, tone, mark-making, scale/proportion, colour theory, complementary contrasts, acrylic mixing, reduction press printing, graphics, letter forms, artist studies, popular culture - mass culture influences					Efify - observational drawing, 2D relief cardboard sculpture, multi-cultural influences Exploration of cultural identity through the use of patterns and symbolism, Cornish culture													
Drama	Gothic Horror - atmosphere and tension through acting and staging, comedy horror/spoof, story building and writing, Grand Guignol - research of style and techniques, tableaux of horror, study of scripts, immersing an audience.Cornish Link to Bodmin Jail and investigation into the mystery of the death of Charlotte Dymond. Vocabulary building, key terminology learning, script-writing, research.					Comedy : Devising work based on Slapstick Comedy and stage Combat extending into Commedia dell'arte and mask work Design elements : of costume/mask/set													
Music	Exploring popular music: The history of pop music, song structure and form, chords, introduction to ukuleles, The Blues - Exploring notation: bass clef, exploration of music of black origin, structures and forms and chord progressions, Reggae and Bob Marley , Exploring music from the Caribbean, structures and forms, musical devices and ensemble skills					World & Traditional Music: Exploring music from different places and cultures - Africa, India and The Caribbean. Exploring film music: famous film themes, elements of film scores, links between music and terror/suspense/mood, Composing for film: working to a brief, applying and implementing compositional devices e.g. soundscapes, leitmotif, Exploring rap and hip hop: the role of technology, social/ cultural/political influences, current affairs, figurative language.													