



# Programme of Learning for Year 8 – Spring Term

RE	English	Maths	Science	Language	Music
<p><b>LIFE AFTER DEATH</b> To explore different beliefs about the afterlife: heaven, hell, purgatory, judgement. Non-Christian beliefs in the afterlife: the paranormal, near-death experiences, reincarnation. How choices determine eternal life.</p> <p><b>VIRTUES &amp; COMMUNITY COHESION</b> Tolerance in a multi-ethnic society. Racial harmony. Stephen Lawrence Case study. The principles of Social Cohesion. Jimmy Mizen Case study Asylum seekers. Multi-faith society. The role of the Catholic Church in society.</p>	<p><b>SHAKESPEARE</b> Complete Shakespeare play – Romeo and Juliet Understanding and analysis of language, structure and context, form, and themes. Use subject terminology to help explain and analyse how Shakespeare uses language, form and structure to achieve effects. Explore dramatic devices i.e. stage directions. Drama representations of the text.</p>	<p><b>SOLVING EQUATIONS</b> Solve linear equations with brackets. Solve equations with unknowns on both sides. Substitute negative integers into linear equations.</p> <p><b>SEQUENCES</b> Find the <math>n</math>th term of a linear sequence. Find any term of the sequence after working out the <math>n</math>th term. Prove if a number appears in the sequence. Recognise the term rule for geometric sequences.</p> <p><b>INDICES AND STANDARD FORM</b> Multiplication and Division index laws including coefficients. Power to power laws including coefficient, Negative indices.</p> <p><b>RATIO AND PROPORTION</b> Interpret map and model scales, where pupils have to simplify to 1:n</p> <p><b>GRAPHS</b> Find the gradient of a line on a grid. Understand what <math>m</math> and <math>c</math> are and find them from an equation and graph. Plot a graph using the gradient – intercept method. Use a graph to find the approximate solution of a line.</p> <p><b>DATA COLLECTION AND AVERAGES</b> Recognise the advantages and disadvantages of the averages. Understand the effect of an outlier on the range. Construct a stem &amp; leaf diagram and find averages from this.</p> <p><b>2D, 3D SHAPES AND ANGLES</b> Know properties of special quadrilaterals and use these to help find missing angles. Be able to name a 2D shape from a description of properties. Be able to name a 3D shape from a description of properties. Use a combination of all facts so far to find multiple missing angles. Find missing angles in parallel lines – alternate angles. Corresponding angles, Cointerior/Supplementary/Allied angles. Plans and Elevations – isometric drawings</p> <p><b>PROBABILITY</b> 4 operations in worded problems. Multiplying and dividing with negative numbers. BIDMAS – know and use order of operations.</p> <p><b>TRANSFORMATIONS</b> Understand the words congruence and similarity and be able to relate these to the 4 transformations. Reflect a shape in the line <math>y = x</math>. Enlarge a shape given a positive scale factor and centre of enlargement.</p> <p><b>DATA PRESENTATION</b> Construct a line graph for a simple time series. Produce &amp; interpret frequency polygons for grouped data - read off frequency values, calculate total population &amp; find greatest &amp; least values.</p>	<p><b>BIOLOGY</b> Gas exchange, photosynthesis &amp; Aerobic respiration and Anaerobic respiration, Biotechnology, Plant minerals</p> <p><b>CHEMISTRY</b> Global Warming, The Carbon Cycle, Climate Change, Recycling, Extracting metals. Know that the greenhouse effect is necessary for life. Know that recycling saves the Earth's resources for future generations</p> <p><b>PHYSICS</b> Magnets and magnetic materials, Magnets and the law of poles, Magnets and magnetic induction and magnetic fields. Electromagnets.</p>	<p><b>FRENCH: J'ADORE LES FÊTES</b> Describe buying &amp; eating food, regional dishes and cuisines using passive articles. Talking about what you ate in the past using perfect tense &amp; partitive article. Describing a future trip and New Year's resolutions using immediate future tense.</p> <p><b>FRENCH: A LOISIR</b> TV programmes and celebrities using adjectives and opinions. Being able to say how often you do things. Arranging to go to the cinema and what you do in your free time using the present tense, negatives and the verb 'lire'.</p> <p><b>SPANISH: MIS VACACIONES</b> Learn the past tense and how to describe their holidays. They say where they went, who with and the activities they did using preterite of 'SER' and 'IR' and 'for -ar' verbs.</p> <p><b>SPANISH: LA COMIDA</b> Talk about mealtimes, how to shop for food and order in a restaurant using preterite -ar verbs, er and -ir verbs, irregular verbs and tú and usted. Learn high numbers.</p>	<p><b>JAMAICAN MUSIC</b> Understand how a Jamaican song works in terms of melody and accompaniment. Develop knowledge of Jamaican music and Jamaican artists. How to create a reggae piece using solo and ensemble skills.</p> <p><b>THE BEATLES</b> Develop knowledge of staff notation, keywords and features relating to the Beatles. Understand how pop music has developed through studying the Beatles.</p>
PE	History				
<p>Football Rugby Swimming Badminton Fitness Gymnastics</p> <p>Analyse own and others to improve performance. Develop level of technique being used in different elements of fitness training. Understand what a fit and healthy lifestyle is, and why it is important. Know the difference between the types of fitness training and understand why each are important for different sports.</p>	<p><b>FIRST WORLD WAR</b> Recruitment to the Army The Western Front 1914 Conditions in the trenches General Haigh. How the wounded were cared for. Why the war ended.</p> <p><b>SECOND WORLD WAR</b> The reason for the War, Dunkirk 1940, Battle of Britain. The US enters the War 1941 The Battle of Stalingrad 1942 The events of D-Day The effects of people on the Home Front. VE Day. The Atom Bomb</p>				
Art	Computing	Technology	Geography	Drama	PSHCE
<p><b>COCO COLA CULTURES</b> Explore appropriate images related to given culture. Design work by Coca-Cola. Link culture and Coca-Cola. Explore a range of materials, techniques and processes. To produce a piece/s of art based on their culture relating to Coca-Cola bottle designs.</p> <p><b>HUNDERTWASSER LANDSCAPES</b> Explore images related to Hundertwasser and develop a range of ideas that link landscapes to Hundertwasser's work using colour and pattern. Be able to recognise and select appropriate buildings to create a landscape. To produce a piece/s of art based on landscapes in the style of Hundertwasser.</p>	<p>Use basic features of 'photoshop'. Import photos, crop, use saturation, layers &amp; background eraser tools. Apply filters and effects. Create a digital image following a client brief. Review and evaluate a digital image.</p> <p>Understand what a variable is and be able to use them in a text based programming language. Use input statements within a text-based programming language Understand that a computer needs to know what the data type is for a given variable. Understand the difference between 'if' and 'if else' statements and use them in their work. Write a program using loops and test, evaluate and modify programs.</p>	<p><b>TEXTILES: MONSTER CUSHION</b> Smart materials, sampling, pattern making, sewing skills</p> <p><b>FOOD TECHNOLOGY: FOOD, NUTRITION &amp; KITCHEN SKILLS</b> To use a range of skills to produce a complex dish Modify a dish to make it more nutritional balanced for active teenagers Follow time plan to produce chosen dish</p> <p><b>DESIGN TECHNOLOGY: MOOD LIGHT</b> Health &amp; Safety. Introduction to electronics, wire stripping, soldering, making and drilling a PCB and attach components, testing and fault finding.</p> <p><b>DESIGN TECHNOLOGY: PEWTER JEWELLERY</b> Drawing/Designing skills, use of modelling clay and camera technology. Use of laser cutter, acrylic, assemble moulds, MDF, pewter, saws and CAD.</p>	<p><b>THE VALUE OF ASIA</b> Growth of mega-cities and globalisation. The causes and effects of globalisation. Population density particularly population of China. Understand why China is a newly industrialised country. Explore the growth of Shenzhen, China. Describe the impacts of industry (environmental &amp; social) on the Pearl Delta region of China. Rural-Urban migration of Lagos, Nigeria. How rapid urban growth leads to slums and squatter settlements. Compare Lagos and Shenzhen. Use grid references to locate places. Compare places using photographs.</p> <p><b>LANDSCAPE OF THE LOCAL AREA</b> Discover how Physical (geomorphology) process change environments. Use sketches, photographs and diagrams to interpret landscapes.</p>	<p><b>MUSICAL THEATRE</b> Know the features of musical theatre, the plot of Hamilton and the character Alexander. Know the importance of an opening number and an "I want" number. Use vocal skills, specifically rap and rhythm. Use street dance.</p> <p><b>TEACHER IN ROLE</b> Improvisation, skills of creativity and imagination. Understand different performance environments, 'end-on', and 'in-the-round'. Use teamwork skills to create a split-scene performance, 'hot-seating', duologue and characterisation. Develop narrative of 'The Mystery of Charlotte Dymond'.</p>	<p>Power of advertising Relationship and Sexual Education: Grooming Gender and Identity – prejudice and the role of the media. Gambling</p>