



The JF Way

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Year 8 Curriculum Summary: Term 3

The table below shows the knowledge and skills that Year 8 students are learning in their subjects this term.

Topic / Knowledge	Skills
Art and Design	
Portraiture Still life Smooth pencil tone	Portraiture proportion and drawing skills Application of tone to portraits Still life compositional and drawing skills Application of smooth pencil tones to still life Exploration of different dry materials and alternative methods of paint application.
Computing	
Computational Thinking Databases Spreadsheet Modelling	Computational Thinking: Students will develop key skills in algorithmic thinking, Boolean conditions and logic. Databases: Students will learn how databases are used in the modern world and how to design, create and maintain an access database. They will also learn basic SQL commands. Spreadsheet Modelling: Students will learn how to use a spreadsheet to model a business and how to make predictions and informed decisions based off of this
Design and Technology	
Student will rotate around the following three subjects as a carousel through the three terms:	
Food Preparation & Nutrition – International Cuisine <ul style="list-style-type: none"> Understand why micro-nutrients and macro-nutrients are needed in our diet. Be able to explain food miles and carbon footprint and how they relate to different recipes To learn the importance of dietary fibre To analyse and evaluate the functions of different ingredients 	<ul style="list-style-type: none"> Health & Safety awareness – particular focus on cross contamination. To understand and use stir fry cooking methods. Be able to cook high risk food safety. The reduction of liquids to intensify flavours. The function of ingredients in bread and cake making.



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<p>Graphics</p> <p>Technical Drawing</p> <ul style="list-style-type: none"> • Perspective Reconnect • Isometric (Shapes and Objects) <p>Lego man magnet</p> <ul style="list-style-type: none"> • 3D printing (Advantages/disadvantages) • Packaging (Legal information, informative information, marketing, Typography, Nets) • Design Brief • Design Communication (Isometric) • Research and Investigation (AI, Product Analysis) • CAD/CAM (Tinker CAD, 3D printing) • Specialist Process (Vinyl Cutter, 3D printing) <p>Written Assessment</p>	<p>To develop basic modelling techniques. Generation of stencils for letters and objects. Producing a range of initial sketches for a board game. The use of nets to create packaging.</p>
<p>Resistant Materials</p> <p>Sweet Dispenser Practical Assessment</p> <ul style="list-style-type: none"> • Motion and mechanisms • Polymer Processes (Vacuum forming) • Design brief/specification • Design communication • Specialist tools, techniques, and processes (marking out, scroll saw, hole saw, counter sink, joining different materials, cordless drill, Laser cutter CAD/CAM) <p>CAD/CAM project (key ring)</p> <ul style="list-style-type: none"> • CAD/CAM (Google SketchUp) • The 6 R's • Scales of production • 2D Design • Maths in D&T <p>Written Assessment</p>	<p>Understanding basic mechanical principles of motion and leverage. Selecting and using correct tools and machines for different aspects of production.</p>
Drama	
<p>Live Theatre Review - Wind in The Willows</p>	<p>Students will continue to develop their understanding of key Drama vocab. They will be able to spot the skills that they have learnt in lessons, during a live performance. Students will learn how to use the "What, How, Why, Justify" paragraph structure.</p> <p>Students will develop their understanding of design elements in Theatre.</p>



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English	
<p>World War One Poetry 18 lessons In Miss Mugridge’s unit, students study a range of important WWI poems and their context, resulting in an extended comparative essay assessment.</p> <p>Fiction: Global Perspectives 18 lessons Students study a range of extracts from fictions that look at a range of issues across the English-speaking diaspora and the way that they are written about to prepare for answering the GCSE Language Paper 1 creative writing-type question.</p>	<p>Skills focus: World War One Poetry</p> <ul style="list-style-type: none"> • Identification and analysis of poetic devices • Structuring analytical comparisons <p>Skills focus: Fiction: Global Perspectives</p> <ul style="list-style-type: none"> • Retrieving explicit and implicit information • Language analysis • Structuring a short narrative • Using creative writing features effectively
Geography	
<p><u>Weather and Climate</u> Pupils will investigate a range of weather and climate geography including:</p> <ol style="list-style-type: none"> 1) Difference between weather and climate? 2) How do we measure and record the weather? 3) What are clouds and how do they form? 4) Why does it rain? 5) What are air masses and how to they influence our weather? 6) What is the beast from the east. 7) What are depressions and what weather do they give. 8) What are anticyclones and how do they affect our weather? 9) What factors affect climate? 10) What is a microclimate? 11) Swimming pool @JFCS decision making project. 	<p>Though an enquiry-based approach; we aim to foster the knowledge of places, spaces and scale by studying countries and particular regions at a variety of scales from local to global. Through the study of places, we integrate the concept of interdependence and how in an ever-increasing globalised world we are connected and rely on other places. Embedded across all units are the physical and human processes that shape our planet from topics such as weather and climate, climate change to globalisation and population change. A theme that is common within and between our topics in Key stage 3 is how people and places impact on the environment and how the concept of sustainability is considered in different contexts. Cultural understanding and diversity is promoted through Geography, broadening students understanding of the wider world and developing their role as global citizens in the 21st Century.</p>



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History	
<p>Industrialisation and Britain's place in the wider world in the nineteenth century.</p> <p>Students will gain an understanding of the issues that industrialised Britain grappled with. They will learn about conditions in the industrial towns, the spread of cholera and what changes were made to improve public health as well as transport and wider inventions and discoveries. They will consider a range of reasons why there was so much unrest and how close Britain came to revolution at that time. Finally, they will be afforded the opportunity to explore Britain's place in the world, the growth and reasons for empire as well as its legacy. There will be case studies of Australia, India and the debate over the Benin Bronzes.</p>	<p>There will be a continued focus on second order concepts including cause and consequence, change and continuity as well as significance.</p> <p>They will understand why events have to be placed into chronological order. Students will be introduced to a wide range of historical sources on life in industrial Britain. They will be expected to reflect on the provenance of these sources and to make a judgement on how useful they are as evidence. Students will be expected to consider what makes someone significant in history.</p>
Mathematics	
<p>Ratio and Proportion</p> <p>Students will work with quantities in proportion such as scaling up recipes. They will learn to use the unitary method and multiplicative reasoning to solve harder proportionality problems</p> <p>Students will understand and simplify ratio notation as well as learn to divide quantities into a given ratio. They will be extended to worded real-life problems.</p> <p>Scale and Similarity</p> <p>Students will learn to draw accurate scale diagrams and interpret scale factors to calculate real life lengths of objects. They will learn the meaning of congruence and similarity and use this to find missing lengths in shapes.</p> <p>Fractions and Percentages</p> <p>Students will revisit and extend on the fraction and percentage work completed in Year 7. They will convert between mixed numbers and improper fractions and review all 4 operations with fractions and mixed numbers. They will interpret and solve worded problems by applying their understanding of fractions. Students will also learn to increase and decrease by a percentage, calculate percentage change and calculate the original value in percentage problems. They will learn to apply multipliers to undertake percentage calculations.</p>	<ul style="list-style-type: none">• Students will begin a deep focus on all things proportional. This will include working with ratios, scale for drawings and enlargements right down to working out the best buy from a range of options using the unitary method to solve worded problems.• The most able students will learn how to use multiplicative reasoning to solve more complicated proportionality questions alongside being attempt worded ratio problems. They will need to learn to carefully read and interpret questions.• Students will revisit, upgrade and extend their knowledge of fractions and percentages.



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Modern Foreign Languages (MFL)	
French	
Module 3 - Leisure Celebrities and TV programmes Digital technology Arranging to go to the cinema Leisure activities Spotting synonyms Using 3 tenses when speaking What sports you play Activities you do Sport in French speaking countries What you like doing Interview with a celebrity	Module 3 - Leisure Single and plural adjective agreement, forming and answering questions, negatives, using 3 tenses, French sounds, jouer à, faire, cognates and contexts, aimer + infinitive, forming and answering questions, jouer à, faire de, comparatives
Module 4 - Freetime/Home Talking about weather and seasons Talking about where you live Describing where you live What you do to help at home Daily routine Moving house Using 3 tenses in writing to describe a region.	Module 4 - Freetime/Home Key French sounds, Pouvoir + infinitive, listening for different persons of a verb, decoding strategies, reflexive verbs, irregular adjectives, using 3 tenses, finding and translating nouns into French
German	
Health Breakfast Traditional German food Recipes Healthy lifestyles Longer texts Describing and comparing dinner parties.	Health The verbs essen and nehmen, more imperatives, müssen Parts of the body Using the imperative
Content: Going out Clothes and style Plans for a date Getting ready to go out How the date went Uniforms Fairtrade labels	Going out Wenn clauses, the future tense, asking questions using a variety of verbs, using past, present and future tenses.



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Spanish	
<p>Hobbies</p> <p>What you use your phone for What type of music you like Talking about TV Saying what you did yesterday Understanding a TV guide Young people's lives Saying what you will do Tackling an authentic text Using 2 tenses Hispanic singers</p>	<p>Hobbies</p> <p>Present tense, a range of opinions, the comparative, using the present and the preterite, the simple future tense</p>
<p>Operación verano</p> <p>Describing a holiday home Describing holiday activities Asking for directions Talking about summer camps Describing a world trip Discussing holiday destinations</p>	<p>Operación verano</p> <p>Discovering more about the comparative, <i>ser</i> and <i>estar</i> (including stress accent: <i>esta</i> vs <i>está</i>), comparative: <i>más/menos</i> + adjective + <i>que</i>, the superlative, <i>se puede(n)</i> + infinitive superlative: <i>el/la/los/las más</i> + adjective + <i>de</i>, imperative: <i>tú</i> form, using three tenses (present, preterite, near future) together, time phrases, irregular comparatives: <i>mejor/peor que</i>, irregular superlatives: <i>el/la/los/las mejor(es)/peor(es) de</i> using different tenses (preterite, near future, conditional <i>me gustaría</i>)</p>
Music	
<p>The Blues Revision Programme Music – listening and composing in this Classical style of music</p>	<p>Composing Listening Ensemble Performance</p>



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Physical Education	
Athletics	Athletics – Explore a variety of track and field events, preparing pupils for the Moorways District Athletic event, in June. Pupils will learn how these events are measured and organised, with a big emphasis on health and safety with throwing events.
Rounders.	Rounders - Further development of batting technique, effective fielding techniques, outwitting an opponent and further clarification of the official rules.
Tennis	Tennis – To learn and understand the rules of tennis, the correct method of scoring and further develop a variety of techniques, through various types of shots and gameplay
Science	
Genetics and Evolution Matter Magnetism Making salts Ecology Project	<p>Further development of science skills, which include:</p> <ul style="list-style-type: none"> • Planning investigations: writing detailed methods, naming specific apparatus and safety precautions • Conducting investigations, including working safely with acids and alkalis, Bunsen burners, and electrical equipment • Analysing data, including finding and describing errors, plotting graphs and explaining trends, and drawing lines of best fit <p>Further mathematical skills:</p> <ul style="list-style-type: none"> • Using and rearranging equations • Using and converting units • Calculating averages and ranges
Personal Development (PD)	
<p>Identity, relationships, and sex: Students will learn about contraception and what a healthy relationship looks like. They will also study gender identity and sexual orientation.</p> <p>Throughout this term, students will use 'Unifrog' to embed their careers education.</p>	<p>Students will build on their prior knowledge of what a healthy relationship looks like. They will also explore gender identity and look at dealing with conflict. Students will begin to gain an understanding of contraception.</p>
Religious Education (RE)	
<p>Students will learn about the Buddhist faith, learn about their festivals, the way Buddhists commit to their faith and explore their art.</p> <p>Students will explore 'peace and conflict' with a religious context.</p>	<p>Students have knowledge of how different religions and cultures look at 'peace and conflict'</p>