



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	
Still life Smooth tone Environmental Art – use of recyclable materials Knowledge of Derek Gores Knowledge of Pablo Picasso	Research skills Drawing of still life Application of tone to still life observational studies Production of pieces of art using recycled materials – collage and collagraphs. Printing skills
Computing	
Databases	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	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	
<i>Students will rotate around the following three subjects as a carousel through the three terms:</i>	
Food Preparation & Nutrition : International Cuisine Understand why micro-nutrients and macro-nutrients are required to be 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	Health & Safety awareness – particular focus on cross contamination. To understand and use stir fry cooking methods. Be able to cook meats safely and the reduction of liquids to intensify flavours.
Graphics: Technical Drawing Technical Drawing <ul style="list-style-type: none">Perspective ReconnectIsometric (Shapes and Objects) Tic Tac Toe <ul style="list-style-type: none">Specialist tools (hand-files and abrasive paper)CAD (2D design Contour, Vectorise)	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.



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<ul style="list-style-type: none">Polymers (thermoforming and thermosetting)Finishing methods (Spray paint, vinyl/vector stickers)Design BriefDesign SpecificationDesign CommunicationPolymer Processes (Vacuum Forming, Reconnect/Retention) Lego man magnet <ul style="list-style-type: none">3D printing (Advantages/disadvantages)Packaging (Legal information, informative information, marketing, Typography, Nets)Design BriefDesign Communication (Isometric)Research and Investigation (AI, Product Analysis)CAD/CAM (Tinker CAD, 3D printing)Specialist Process (Vinyl Cutter, 3D printing) Written Assessment	
Resistant Materials: Sweet Dispenser Practical Assessment <ul style="list-style-type: none">Motion and mechanismsPolymer Processes (Vacuum forming)Design brief/specificationDesign communicationSpecialist tools, techniques, and processes (marking out, scroll saw, hole saw, counter sink, joining different materials, cordless drill, Laser cutter CAD/CAM) CAD/CAM project (key ring) <ul style="list-style-type: none">CAD/CAM (Google SketchUp)The 6 R'sScales of production2D DesignMaths in D&T Written Assessment	Understanding basic mechanical principles of motion and leverage. Selecting and using correct tools and machines for different aspects of production.



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Drama	
Live Theatre Review	<ul style="list-style-type: none">• Critically watch Live Theatre• Analyse and evaluate acting, design and technical aspects.• Analyse and evaluate the characterisation and interaction of actors in a scene.• Analyse and evaluate the ability to interact with an audience.• Working collaboratively
English Language and Literature	
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.	<ul style="list-style-type: none">• Identification and analysis of poetic devices• Structuring analytical comparisons
Non-Fiction: Crossing Borders 18 lessons In Miss Grace's unit, students study a range of fiction and non-fiction texts that look at a range of international and humanitarian issues and the way that they are written about to prepare students for answering some of the GCSE Language Paper 2 reading-type questions.	<ul style="list-style-type: none">• Retrieving explicit and implicit information• Writing summaries• Structuring comparisons• Language analysis



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Geography	
<p>Ecosystems</p> <p>Pupils will explore what an ecosystem is and how their complex relationships produce interconnections such as food chains and webs. Pupils will explore the interactions in the physical world such as the Oak Ecosystem, Marine Ecosystems and a variety of Ecosystems in South America with a focus on the tropical Rainforest.</p> <p>Students will consider the huge value that ecosystems provide, economically, socially and environmentally. Pupils will also consider the real and present threats to global to local ecosystems and how careful management of these ecosystems is important to humanity.</p>	<p>Through 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>
History	
<p><u>Industrialisation and Britain's place in the wider world in the nineteenth century.</u></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 the importance of Britain's role in India.</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>



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Mathematics	
<p>Proportion Work with quantities in proportion such as scaling up recipes Use the unitary method and multiplicative reasoning to solve harder proportionality problems</p> <p>Ratio Understand and simplify ratio notation Divide quantities into a given ratio</p> <p>Scale and Similarity Draw accurate scale diagrams and interpret scale diagrams to calculate real life lengths of objects Understand the meaning of congruence and similarity and use this to find missing lengths in similar shapes</p> <p>Fractions Convert mixed numbers into improper fractions Add, subtract, multiply and divide regular fractions and mixed numbers Interpret and solve worded problems by applying their understanding of fractions</p> <p>Percentages Calculate percentage change Apply multipliers to calculate percentage change Calculate the original value in percentage problems</p>	<p>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.</p> <p>The most able students will learn how to use multiplicative reasoning to solve more complicated proportionality questions alongside being able to share a quantity into a given ratio.</p> <p>Student will revisit, upgrade and extend their knowledge of fractions and percentages.</p>



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Modern Foreign Languages (MFL)	
French	
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 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	
Module 4: Going out Clothes and style Plans for a date Getting ready to go out How the date went Uniforms Fairtrade labels	Module 4 Wenn clauses, the future tense, asking questions using a variety of verbs, using past, present and future tenses.
Spanish	
Module 4: Hobbies 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	Spanish Module 4 Present tense, a range of opinions, the comparative, using the present and the preterite, the simple future tense



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Music	
Film Music learning keywords and retrieval of MAD TSHIRT , performing James Bond and composing a short piece of film music.	<ul style="list-style-type: none">• Composing• Listening• Ensemble• Performance
Physical Education	
Athletics Rounders Tennis	<p>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.</p> <p>Rounders Further development of batting technique, effective fielding techniques, outwitting an opponent and further clarification of the official rules.</p> <p>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.</p>
Science	
Matter Sound Geology Project 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, electrical equipment and microscopes• 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



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Personal Development	
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.	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.
RE: Students will explore 'peace and conflict' with a religious context.	Students have knowledge of how different religions and cultures look at 'peace and conflict'
Throughout this term, students will use 'Unifrog' to embed their careers education.	