



The JF Way

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Year 8 Curriculum Summary: Term 1

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	
<p>Tone</p> <p>Understanding of how the application of tone creates the three-dimensional visual effects on a piece of artwork</p> <p>Knowledge of the artist Van Gogh, Tim Burton. .</p>	<p>Markmaking tonal skills - Pointillism/stippling, scribble and crosshatching.</p> <p>Application of the above techniques to basic shapes.</p> <p>Drawing skills</p> <p>Application of the techniques to more advanced objects and landscapes.</p>
Computing	
Python Programming	<p>Students will begin their first unit of python programming at KS3. It will teach them the basics of procedural programming giving them a strong foundation for future units.</p>
Design and Technology	
<i>Student will rotate around the following three subjects as a carousel through the three terms:</i>	
<p>Food Preparation & Nutrition – International Cuisine</p> <p>Understand why micro-nutrients and macro-nutrients are required to be in our diet</p> <p>Be able to explain food miles and carbon footprint and how they relate to different recipes</p> <p>To learn the importance of dietary fibre</p> <p>To analyse and evaluate the functions of different ingredients</p>	<p>Health & Safety awareness – particular focus on cross contamination.</p> <p>To understand and use stir fry cooking methods.</p> <p>Be able to cook meats safely and the reduction of liquids to intensify flavours.</p>
<p>Graphics: Lego Man</p> <p>To design a product that compliments an existing range</p> <p>Understanding ergonomics and aesthetics when designing a product</p> <p>Explore different styles of typography</p> <p>Developing a strong brand image from a logo</p> <p>Analysing the key information found on product packaging</p>	<p>To develop basic modelling techniques.</p> <p>Generation of stencils for letters and objects.</p> <p>Producing a range of initial sketches for a merchandise item</p> <p>The use of nets to create packaging.</p>
<p>Resistant Materials: Sweet Dispenser</p> <p>To understand the different properties and uses of wood and polymers</p> <p>Be able to produce a detailed specification</p> <p>Working within dimensional tolerances</p> <p>Appreciation of user requirements when designing and making</p> <p>Understanding the need for ergonomic design</p>	<p>Understanding basic mechanical principles of motion and leverage.</p> <p>Selecting and using correct tools and machines for different aspects of production.</p>



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Drama	
Melodrama and silent film The Demon Barber	Physical acting skills Vocal Characterisation Multi-Role Reading and performing from scripts Script writing Accent Mime Exaggeration Stage directions and layouts.
English	
Class novel A whole text study of <i>Between Shades of Gray</i> , with a focus on character development, description, historical context and biographical detail.	Skills focus: Term 1A: tracking the development of plot, character and theme across a whole text, extended writing, independent research, selecting evidence effectively, constructing an argument
Non-Fiction: Crossing Borders This unit focuses on writing and reporting about the experiences of people crossing national borders, as economic migrants, refugees, or asylum seekers.	Skills focus: Term 1B: Exploring informative and persuasive modes of writing, reading for comprehension, inference and implication, and analysis of DAFOREST writing strategies.
Geography	
Unit 1- Growing World People and the Planet – Population and change <ul style="list-style-type: none"> Where does everybody live? What factors influence where we live? How does population change? Why does population change? What is the Demographic transition model? How do population pyramids tell us about a country? What is migration? Mexico to USA – Migration mystery. The One Child Policy- All about China. China and overpopulation Incentives/Punishments of the OCP What were the impacts of the OCP? Success or failure of the OCP? China today – Why are they pro-natalist? 	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 21 st Century.



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History	
<p>Stuart England 1603 - 1714</p> <p>Elizabethan England concludes with a study of the Spanish Armada and a focus on Drake and exploration. Students will then gain an understanding of life in Britain in the period from 1603 and 1714. They will learn about the reigns of James I and his son Charles and the political, economic and religious challenges they faced. They will consider a range of reasons why the Civil War broke out in 1642 and how this led to the execution of the King. Finally, they will study the restoration and how the monarchy re-established itself. They will reflect on how successful Oliver Cromwell was as Lord Protector and how his actions have been interpreted by contemporaries and historians.</p>	<p>There will be a 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. They will consider the impact of the execution of the King in 1649. Students will be introduced to a wide range of historical sources on life in England during the Civil War. They will be expected to reflect on the provenance of these sources and to make a judgement on how useful they are as evidence. They will examine, for example, how useful Samuel Pepys' diary is in learning about London in 1660s and what paintings can reveal. Students will study interpretations of Cromwell in order to judge what kind of Lord Protector he was.</p>
Mathematics	
<p>Half Term 1: Shaping Up</p> <p>Students will have the opportunity to review and extend their knowledge on a broad range of geometrical topics enabling them to solve increasingly challenging angle problems, calculate the volume and surface area of prisms, enhance their ability to work with map scales and develop their spatial reasoning.</p> <p>Half Term 2: Developing Algebra</p> <p>Students will revisit and extend upon their algebraic journey during this half term. They will review the basics of constructing and manipulating expressions and solving equations through balancing. Many students will learn how to solve equations involving fractions and apply these skills to construct and solve inequalities. Students will also learn to work with and calculate values using basic formulae including rearrangement and the use of Pythagoras' Theorem.</p>	<p>Area/Perimeter</p> <ul style="list-style-type: none"> Review perimeter and area of quadrilaterals, circles and composite shapes involving circles. <p>Volume and Surface Area</p> <ul style="list-style-type: none"> Calculate the volume of cuboids and other prisms. Calculate the surface area of cuboids and other prisms. <p>Angles</p> <ul style="list-style-type: none"> Draw and measure angles of any size and apply angle facts to solve problems. Find the sum of angles in any given polygon. Work with interior and exterior angles and angles in parallel lines. Draw and interpret bearings to solve bearing problems involving parallel lines. <p>Map Scales</p> <ul style="list-style-type: none"> Interpret Map Scales given as ratios Calculate real life distances and distances on a map. <p>Construction</p> <ul style="list-style-type: none"> Construct the four types of triangles using Mathematical equipment. Construct perpendicular bisectors of a line segment and angle bisectors for any given angle. <p>Further Algebra:</p> <ul style="list-style-type: none"> Construct expressions, expand brackets and factorise algebraic terms Solve one and two step equations moving onto multi step equations including those involving brackets and fractions.



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	<ul style="list-style-type: none"> • Use and construct simple formulae. Change the subject of a formula • Expand and factorise quadratic expressions. • Learn and apply Pythagoras' Theorem • Construct and solve inequalities including those involving brackets and fractions.
Modern Foreign Languages (MFL)	
French Family Life Talking about animals Using higher numbers Describing your family Describing where you live Talking about breakfast Learning about Bastille Day Creating a cartoon family Holidays Talking about school holidays Talking about what you did during the holidays Describing a visit to a theme park Saying where you went and how Listening for negatives in the perfect tense Asking the way and giving directions	Forming the plural of nouns (–s and –x), complex numbers, possessive adjectives: <i>mon, ma, mes</i> and <i>ton, ta, tes</i> , agreement of adjectives, the <i>nous</i> form of –er verbs, the partitive article (<i>du / de la / de l' / des</i>), <i>manger</i> (–er verb) and <i>boire</i> (irregular verb), the <i>ils</i> and <i>elles</i> form of –er verbs Avoir and être, using the perfect tense of regular and irregular verbs, the perfect tense with être, negatives in the perfect tense, answering and asking questions, using the present and perfect together, imperatives
German Family and Pets Talking about pets Talking about 'superpets' Talking about family members and age Describing family members Talking about birthdays Developing speaking skills Practising asking and answering questions German traditions Holidays: What there is/isn't in a town What souvenirs you want to buy Buying snacks and drinks Holiday plans Understanding longer, more varied spoken texts Writing at length about a topic	Plural of nouns, pronouns, <i>kann</i> + infinitive, more about können, more practice of present tense verbs, the regular verb <i>wohnen</i> , ways of saying 'you', adjectives with nouns, adjectival agreement, full paradigm of irregular verb <i>haben</i> , ordinal numbers Es gibt + ein/kein, ich möchte, warden to form the future tense Listening, Speaking, Reading and Writing



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Spanish Family and Friends: Describing your family Hair and eye colour What other people look like Describing where you live Giving a presentation Reading about a carnival in Cadiz What are we doing?: Describing your town or village Ordering in a café Saying what you are going to do at the weekend Understanding about towns Arranging to go out Making excuses Getting ready to go out Sporting events Describing a fancy dress outfit	Possessive adjectives, ser and tener, verbs in the 3 rd person, the verb estar Listening, Speaking, Reading and Writing a/some and the, the verb -ir, querer, the near future tense, using 2 tenses together, using 3 tenses, using structures with 2 verbs
Music	
Song unit – including the Song Contest Indian Music	Composing Listening Ensemble Performance
Physical Education	
Handball Netball Basketball Football Table Tennis Tag Rugby	Further improvement of ball mastery and skill technique. Outwitting an opponent and start to explore tactical advantages of team sports. Leading warm ups and skill-based activities to promote leadership qualities and confidence amongst peers.
Science	
Photosynthesis Heat Transfers Chemical reactions Gas exchange systems Science skills Motion	Further development of science skills, which include: 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 Further mathematical skills: Using and rearranging equations Using and converting units Calculating averages and ranges



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Personal Development	
Health and Wellbeing What is mental health? Positive body image Child abuse Types of bullying and responding to bullying	Students will begin to investigate the differences between Physical and Mental health, and how to protect both. This will lead itself into finding out about different forms of child abuse, which will be covered in an age-appropriate manner. Students will also explore bullying and how to respond to this.
Religious Education	
Students will be studying Judaism this term.	Students will continue to explore different faiths this year, starting with Judaism this term. Students will consider why Jerusalem is important to Jews, the life story of Abraham and will learn about the Torah and its messages. Students will then learn about Hanukkah and the history of Israel. Students will also have a look at how a modern teenage practises their Jewish faith in modern-day life.
Careers	
Life Beyond School Career choices Career interests and job ideas Labour market information Unifrog Careers Library	Students will build on their knowledge and research from Year 7 to further investigate what career choices are for them. They will learn what Labour Market Information is and how this can help them. During Tutor time students will explore careers in the following different sectors: <ul style="list-style-type: none"> • Transport and logistics • Sport and fitness • Social Care • Science and research • Recruitment and HR • Public services • Medicines and Healthcare • Performing Arts