

## Hexham Middle School Curriculum Map for Year 8, 2017-18

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>ENGLISH</b>	<p><b>Non-fiction: Conflict</b> <i>9/11</i></p> <p>Recount - newspaper article. Narrative – creative writing. Poetry study and analysis.</p>	<p><b>Non-fiction: Conflict</b> <i>War Horse by Michael Morpurgo</i></p> <p>Character analysis essay. Creative writing – letter from the trenches.</p>	<p><b>Modern fiction</b> <i>Bumface by Morris Gleitzman</i></p> <p>Formal letter writing, discussion text on the theme of arranged marriage, narrative writing in the style of an author.</p>		<p><b>Seminal World Literature: Shakespeare</b> <i>Othello</i></p> <p>Analysis of Othello the character, understanding of the storyline, analysis of character behaviour, retelling the story, discussion of issues raised.</p> <p>Transition work with QEHS.</p>	
<b>MATHS</b>	<p>Number: revise and improve, four operations, arithmetic, fractions (four operations), equivalence</p> <p>Expressions and equations: prime factor decomposition, laws of indices, factorising, working with powers</p>	<p>Powers and roots: reciprocals, standard form, fractional indices</p> <p>Area, volume and Pythagoras: surface area, cylinders and prisms, Pythagoras' theorem</p> <p>Fractions, decimals and percentages: four operations, recurring decimals, percentage change</p> <p><i>Some</i> – Quadratics: expanding, factorising, quadratic equations</p>	<p>Graphs and sequences: plotting linear graphs, gradients, <math>y=mx+c</math>, inverse functions, non-linear graphs, real-life graphs</p> <p>Inequalities and formulae: linear inequalities, index laws, changing the subject, <i>some</i> – algebraic fractions</p> <p>Ratio and Multiplicative reasoning</p>	<p>Transformations: translation, rotation, enlargement, STEM focus, volume and enlargement</p> <p>Constructions and loci: accurate drawing, nets, bisect lines, bisect angles, use loci to solve problems</p> <p>Accuracy and measures: rates of change, density, pressure, upper and lower bounds</p> <p><i>Some</i> – Non-linear graphs: quadratic graphs and equations</p>	<p>Scale drawing and measures: maps and scales, bearings, scales and ratio, congruence, geometry problems</p> <p>Probability: mutually exclusive events, experimental probability, using Venn diagrams</p> <p>Standard form: using standard form, calculating</p> <p>Introduction to trigonometry: tangent ratio, sine ratio, the cosine ratio, trigonometric graphs</p>	<p>Mathematical reasoning: explain, show and justify, real-life situations, proofs</p> <p>Statistics, collecting and analysing data: pie charts, stem and leaf diagrams, financial graphs, comparing data</p>

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<b>SCIENCE</b>	<p><b>Health and Lifestyle</b> The content of a healthy human diet. Calculations of energy requirements in a healthy daily diet. The consequences of imbalances in the diet, including obesity, starvation and deficiency diseases. How the digestive system works.</p> <p><b>The Periodic table</b> The physical and chemical properties of different elements. The principles underpinning the Mendeleev periodic table. The periodic table: periods and groups; metals and non-metals. How patterns in reactions can be predicted. The properties of metals and non-metals. The chemical properties of metal and non-metal oxides.</p>	<p><b>Energy</b> Comparing energy values of different foods (from labels) (kJ). Comparing power ratings of appliances in watts (W, kW). Comparing amounts of energy transferred (J, kJ, kW hour). Domestic fuel bills, fuel use and costs. Fuels and energy resources.</p>	<p><b>Ecosystem Processes</b> The interdependence of organisms in an ecosystem. The importance of plant reproduction. How organisms affect, and are affected by, their environment, including the accumulation of toxic materials.</p>	<p><b>Electricity and magnetism</b> Electric current in circuits. Series and parallel circuits. Potential difference, measured in volts. Differences in resistance between conducting and insulating components. Magnetic poles and magnetic fields.</p>	<p><b>Adaption and Inheritance</b> Heredity. A simple model of chromosomes, genes and DNA. Differences between species. Continuous or discontinuous variation. Evolution and extinction. Biodiversity.</p>	<p><b>The Earth</b> The composition of the Earth. The rock cycle. The composition of the atmosphere.</p>

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<b>ART</b>	<p align="center"><b>The work of Stanley Spencer</b></p> <p>Producing analytical drawings using a range of materials</p> <p>Observational drawing skills – the human face</p>		<p align="center"><b>The work of Frida Kahlo</b></p> <p>Developing self-images using photography and computer graphic software.</p> <p>Understanding how artists say something about themselves through their work.</p> <p>Representing fears, aspirations and feelings through art as well personal views of the world.</p>		<p align="center"><b>Abstract Expressionists</b></p> <p>The power of abstract art.</p> <p>How artists express their emotions.</p> <p>Studying the work of Van Gogh, Jackson Pollock and Mark Rothko.</p> <p>How mark making and gesture can communicate emotion – investigating emotional literacy.</p> <p>We delve into the world of the Abstract</p>	
<b>COMPUTING</b>	<p align="center"><b>Python Numbers</b></p> <p>Introduction to the common mathematical operators used in programming. To set up numerical variables and use comparison operators. Work with integers, floats and random numbers. Write the code for a simple adventure game.</p>	<p align="center"><b>Boolean logic, logic gates and truth tables</b></p> <p>Understand simple Boolean logic [for example, AND, OR and NOT] and some of its uses in circuits and programming</p>	<p align="center"><b>Journalism in the 21st Century</b></p> <p>Wikipedia and podcast programming.</p>		<p align="center"><b>Gaming Creator and Product Event</b></p> <p>Using knowledge and applying skills.</p>	
<b>E SAFETY</b>	<p align="center">Online Safety: Sexting and Selfies</p>	<p align="center">A Creator's Responsibilities</p>	<p align="center">Safe Online Talk</p>	<p align="center">Which Me Should I Be?</p>	<p align="center">Gender Stereotypes Online</p>	

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<b>DT &amp; FT</b>	<p align="center"><b>Food Technology</b></p> <p>Following own recipe and adapting appropriately. Cooking a variety of dishes. How to handle and work with raw meat and fish and use a range of herbs and spices to enhance the flavour of a dish. Study of locally grown and Fairtrade food and its benefits for consumers. Study of the main macro and micro nutrients, their sources and functions. The different functions of ingredients.</p>			<p align="center"><b>Design Technology</b></p> <p align="center"><b>Lighting</b></p> <p>Explore and develop a prototype lighting design. Explore the social, moral and environmental issues designers face when developing products. <b>Home based learning</b> Extended project to develop an idea for a 'bedroom of the future'.</p>		
<b>FRENCH</b>	<p align="center"><b>Grammar</b></p> <p>Verb endings Reflexive verbs Perfect tense</p>	<p align="center"><b>French Poetry</b></p> <p>Jacques Prevert Simile Metaphor</p>	<p align="center"><b>Celebrity project</b></p> <p>Essay writing</p>	<b>Grammar carousels</b>	<p align="center"><b>Towns and directions</b></p> <p>Finding your way</p>	<p align="center"><b>The Mr Men and Little Miss books</b></p> <p>Storyboard creation</p>
<b>GEOGRAPHY</b>	<p align="center"><b>Development and Ghana</b></p> <p>The global north/south development gap The Brandt line Development factors Measuring development Accessing water Escaping poverty</p>	<p align="center"><b>Development and Ghana</b></p> <p>The physical geography of Ghana Environment and climate Education Cocoa Success story Measuring development</p>	<p align="center"><b>Environmental issues</b></p> <p>Global warming Coral Reefs Aral Sea Global Weirding Alternative Energy Endangered species</p>	<p align="center"><b>Exploring the Middle East</b></p> <p>Physical geography Biomes and climate Populations Deserts Dubai</p>	<p align="center"><b>Tourism</b></p> <p>What is tourism? Growth in tourism Mass tourism The impact on extreme environments African Eco tourism Dark Tourism</p>	<p align="center"><b>The Geography of Festivals</b></p> <p>Glastonbury and other festivals The environmental impact and potential solutions Designing a festival</p>

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<b>HISTORY</b>	<p><b>The Development of church, state and society in Britain 1509-1745</b></p> <p>The Renaissance The Reformation, including Martin Luther King The Spanish Armada Mary, Queen of Scots</p>	<p><b>The Development of church, state and society in Britain 1509-1745</b></p> <p>The first colony in America Civil Wars throughout Britain Cromwell The Glorious Revolution</p>	<p><b>Political power, industry and Empire in Britain 1745- 1901</b></p> <p>Life on a cotton plantation The Middle Passage Abolishment of Slavery</p>	<p><b>Political power, industry and Empire in Britain 1745- 1901</b></p> <p>The French revolution Britain as the first industrial nation The Development of the Empire Home Rule Darwin</p>	<p><b>Challenges for Britain and the wider world 1901 to present</b></p> <p>The Holocaust Woman Suffragettes The First World War and the Peace Settlement</p>	<p><b>Challenges for Britain and the wider world 1901 to present</b></p> <p>The creation of the welfare state Indian independence Social, cultural and technological change in post war Britain</p>
<b>MUSIC</b>	<p><b>Form &amp; Structure</b></p> <p>The AABA form Finished &amp; unfinished melodic endings (tonic – dominant endings).</p> <p>Composition of an AABA piece Assessed performance</p>	<p><b>Beethoven &amp; the 9th Symphony</b></p> <p>Study the life and works of Beethoven with a focus on his 9<sup>th</sup> symphony ‘Ode to Joy.’</p> <p>The expansion of the orchestra and development of the piano.</p>	<p><b>Blues</b></p> <p>The history and development of Blues music and its influence on other styles of music</p> <p><b>The guitar</b></p> <p>Playing 12 Bar Blues accompaniment patterns and solos</p>	<p><b>Rock ‘n’ Roll</b></p> <p>How Blues developed into musical styles such as Jazz, Rhythm &amp; Blues and Rock ‘n’ Roll.</p>	<p><b>Baroque</b></p> <p>The development of music and the main composers during the Baroque period (1600 to 1750).</p> <p>Composition based on Vivaldi using a variety of ornamentation and sequential melodies.</p>	
<b>PE</b>	<p><b>Invasion games 1</b></p> <p>Football Netball</p>	<p>Run4 Fun Dance Gymnastics</p>	<p><b>Invasion games 2:</b></p> <p>Hockey Rugby</p>	<p><b>Cultural games</b></p> <p>Lacrosse Aussie Rules Handball</p>	<p><b>Athletics</b></p>	<p>Golf Cricket Volleyball</p>

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
RE	<b>What does it mean to be a Sikh? What are the stereotypes?</b> Introduction to Sikhism Sikh Values and traditions Sikhism in the modern world	<b>What does it mean to be a Sikh? What are the stereotypes?</b> Gender roles Prejudice Clash of cultures Bend it like Beckham	<b>Why do people go on pilgrimage?</b> Abraham Hajj Lourdes Jerusalem	<b>How is justice shown in the world today?</b> Justice Law Crime Responsibility Capital punishment	<b>How is community cohesion promoted?</b> Community cohesion Prejudice Media Asylum seekers Refugees	<b>How is community cohesion promoted?</b> Recent events: why leave home? Famous refugees: Prince Phillip, Mo Farah Investigate Britain's history of welcome
PSHE THEMES	Business	Physical Health	Careers	Emotional Health	Rights & Responsibilities at Work	Learning to Learn

Should you wish to know more about the curriculum followed at HMS please contact [admin@hexhammiddle.org.uk](mailto:admin@hexhammiddle.org.uk) and your query will be passed to the relevant Curriculum Leader.