

Year 8 Curriculum Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Mathematics</b>	Number: Fractions, decimals and percentages Estimation and rounding Squares and square roots	Geometry and measures: 2D and 3D shapes Perimeter, area and volume Angles in polygons	Problem Solving: Money Probability Everyday events	Algebra: Sequences Expressions and equations Expanding and factorising Linear equations	Statistics and data: Graphs and charts: Pictograms/tally charts Line graphs Bar charts Pie charts Stem and leaf diagrams Venn Diagrams	Statistics and data: Reading and interpreting data Averages <b>Geometry and measures:</b> Time
<b>English</b>	Ignite 2 <b>It's a Mystery</b> Assessment focus: Writing  Reading activities: Private Peaceful  Conventions of mystery genre How different texts can be structured to achieve different purposes	Ignite 2 <b>Words of war</b> Assessment focus: Reading  Reading activities: Private Peaceful  How text reflect the social and historical contexts. Language techniques to create specific atmosphere	Ignite 2 <b>Technology Matters</b> Assessment focus: Speaking and listening- presenting  Reading activities: Wonder  Constructing a balanced argument	Ignite 2 <b>Campaign for a Cause</b> Assessment focus: Writing  Reading activities: Wonder  Techniques to encourage and promote	Ignite 2 <b>Appearance and Reality</b> Assessment focus: Reading  Reading activities: Shakespeare- A Midsummer Night's Dream Writing techniques to engage the reader	Ignite 2 <b>Power of Communication</b> Assessment focus: Speaking and listening: Debating  Reading activities: Shakespeare- A Midsummer Night's Dream  Language to influence
<b>Science</b>	Food and Nutrition Digestion and Transportation Plants and their reproduction	Breathing and anaerobic and aerobic respiration Finding a pulse Unicellular organisms Parts of a bacterial cell Carbon cycle	Combustion, burning and reactions Fire safety Pollution and global warming The periodic table- atoms, elements and chemical substances	Materials in the Earth Metals and their uses Properties & reactions of metals Igneous and metamorphic rocks Weathering & erosion	Properties of solids, liquids and gases Fluids -floating and sinking, pressure and drag Light The travel of light, reflection and refraction Coloured light	Energy transfer and control Earth and space Solar system and seasons Magnetic Earth and Gravity
<b>Personal, Social, Health and Economic Education (PSHE)</b>	Independence and aspirations <b>Developing risk management skills, analytical skills and strategies to identify bias:</b> Managing online presence Digital and media literacy	Autonomy and advocacy <b>Developing respect for beliefs, values and opinions and advocacy skills:</b> Stereotypes, prejudice and discrimination Promoting diversity and equality	Choices and influences <b>Developing agency and strategies to manage influence and access support:</b> Drugs and alcohol Reflection Resisting peer influence Online choices and influence	Independence and aspirations <b>Developing goal setting, motivation and self awareness:</b> Aspirations for the future Associate work Identity and the world of work	Autonomy and advocacy <b>Developing communication and negotiation skills, clarifying values and strategies to manage influence:</b> Healthy relationships Boundaries and consent LGBT + inclusivity Managing conflict	Choices and influences <b>Developing agency and strategies to manage influence and access support:</b> Maintaining positive mental health Importance of physical activity
<b>Careers Education Information &amp; Guidance (CEIAG)</b>	Personal beliefs and values. Are school and work so different? What do you want from work? Job families Ways employers recruit. Who does the job? Equality and stereotypes	Steps Booklet 2	Job families, using careers library/Online resources. Who does the job? How do you make decisions? The qualifications landscape Writing an action plan	Steps Booklet 2	Steps Booklet 2	Budgeting Review learning.
<b>Physical Education</b>	Practical: Badminton (Hook Football/Trampolining) Baseline Test: Coopers Run (Cardiovascular Endurance) Theoretical Content: Drugs in Sport	Practical: Basketball (Hook- Dodgeball/Trampolining) Baseline Test: Alternative Hand Wall Toss Test (Coordination) Theoretical Content: Movement Analysis	Practical: Table Tennis (Hook- Football/ Trampolining) Baseline Test: Illinois Agility Test (Agility) Theoretical Content: Biomechanics	Practical: Handball (Hook- Dodgeball/Football) Baseline Test: Multistage Fitness Test (Muscular Endurance) Theoretical Content: Health, Fitness and Wellbeing	Practical: Athletics & Field Events (Hook- Rounders/Football) Baseline Test: Sit & Reach Test (Flexibility) Theoretical Content: Fitness Testing	Practical: Cricket (Hook- Rounders/ Football) Baseline Test: Sargent Jump Test (Power) Theoretical Content: Injury Prevention
<b>Art &amp; Design</b>	<b>Close up</b> Animals, bugs and cells Use a view finder to produce a close up image of an object or animal Shading Texture Study of work from relevant artists Visit zoo or wildlife park	<b>The Natural World</b> Flowers and Landscapes Pattern, shading and design Proportion, space and perspective Form Add texture Use IT to carry out research Annotate work Study the work of relevant artists Visit relevant galleries or museums (Incl online)	<b>The Natural World</b> Fossils and shells Pattern- repeating, tessellation, rotation Shape Texture Space Reflection Observational drawing and printing Research and annotation Study the work of relevant artists Visit relevant galleries or museums (Incl online)	<b>Portraits</b> Proportion, and division Grades of pencils Shading and tone Blending for skin tone Study the work of relevant artists Visit relevant galleries or museums (Incl online)	<b>Cubism</b> Geometric shapes The principles of Cubism Colour Pattern Research using IT Healthy relationships Study the work of relevant artists Visit relevant galleries or museums (Incl online)	<b>Abstract</b> Characteristics of abstract design Colour, shape, line and texture Layering Use personal creativity Research using IT and annotate work Study the work of relevant artists Visit relevant galleries or museums (Incl online)
<b>3D Design</b>	Recognise ancient monuments around the world, understand their design features, construction and intended uses Learn how early trade routes shaped the world economy through the import and export of goods Interpret, instructions and images and understand that these forms of communication are open to interpretation Practical Project: Design, make and test a sustainable vessel	World War 1 Learn how technology advanced rapidly due to conflict Camouflage- identify it and its uses in nature and in man made design Practical Project: Make a periscope and/or wooden tank	The Natural World Mark out, cut, shape and join timber Recognise and use hand and electric tools. Use tools safely Drill holes accurately and to the correct depth using the bench drill Use adhesives to join wood together Practical Project: Make a habitat box (e.g bird box)	Canals and culture The history of the canal system and how this shaped the way goods were transported before which have a low impact on the environment and are designed to not harm Learn about canal families, how they lived and worked Learn about the design and decoration of a traditional canal boat and the importance of design in small space living Graining Practical project: Design and make a footstool. Use specialist tools and techniques to create the graining	Environment, sustainability and impact Understand how designers and manufacturers have a responsibility for sustainable product design which have a low impact on the environment and are designed to not harm Understand the impact that manufacturing can have on the environment and health.	Climate change Learn about the changes in climate and resources impact on the way we live. Learn about sustainable energy and its use. Practical project: Use appropriate tools, materials and techniques to design and model sustainable living space.
<b>Geography</b>		<b>Urbanisation</b> Industrial Revolution Urbanisation across the world Regeneration - A look at Manchester Slums Sustainability		<b>China</b> History Communism Population distribution Rural China Pollution Trade		<b>Climate Change*</b> Factors that influence climate and the impacts on humans Temperature and emissions Impact of human activity Global warming Actions to tackle climate change
<b>RE</b>		<b>Islam</b> Islam around the world Key Beliefs: Muhammad The Qur'an Symbols Worship Festivals		<b>Ethics</b> Ethics and religion Morality Law The Sanctity of Life Ethics in relation to the environment, animals, drugs and medicine Exploring attitudes The relevance of religion in the modern world.		<b>Buddhism</b> Buddhism around the world Key Beliefs: The Buddha Buddhist scripture Practicing Buddhism Symbols Festivals
<b>History</b>	<b>The Industrial Revolution 1770-1842</b> Manufacture of products The impact of machines Factories, population and the creation of towns Power Child Labour, Working conditions and reform Iron & Coal		<b>The Slave Trade</b> <b>India, a British Empire 1563-1833</b> The role Britain played in the slave trade Conditions on 'slave ships' Ways in which slaves were sold Life on a plantation Factors that contributed to the abolition of the slave trade	<b>Terrible Towns</b> Life in industrial towns and cities Disease and public health Class divisions, then and now Crime and punishment Prison conditions, John Howard, Elizabeth Fry and reform Robert Peel and the establishment of the Police Force	<b>Tudor to Victorian Britain - what changed?</b> How and why people fought for improved rights. Peterloo, Kennington Common Voting and women their rights and lives in the 18th and 19th century, sexism Life in a Victorian school, why and how did schools change Pain, infection and cleanliness, the issues and developments Leisure time, why did it increase and what did people do? Victorian high streets The 'Great hunger' Changes in population, politics and science	
<b>Outdoor Learning</b>	<b>Introduction to Outdoor Learning:</b> Exploring the woods <b>Art:</b> Using nature to create- tool safety <b>Construction:</b> knot tying to make a swing/frame Networking hardware and Software Wired and wireless networks Identifying if a network is working correctly Internet, internet services and the world wide web Threats to data Assessment	<b>Survival Science -</b> Exploring Fire, fire safety, building a fire, putting out a fire <b>Food:</b> bread, hot chocolate <b>Conservation:</b> litter pick, making a bird feeder <b>Using tools and crafting:</b> create festive decorations, tool safety Festive baking on the fire	<b>Survival Science:</b> Fire safety, build, start and put out a fire Make popcorn <b>Construction:</b> knot tying to make a bridge, team work <b>Survival- knife skills:</b> whittle a roasting fork. Toast marshmallows <b>Construction/PE:</b> Make and use natural obstacle course: Team building and competition <b>Woodwork:</b> use a saw safely to saw a disc from a log <b>Art:</b> create a piece of nail art. Use a hammer safely	<b>Survival:</b> Tracking and orienteering using a map <b>Conservation:</b> Litter pick, make a plant pot out of discarded items, decorate and plant <b>Construction:</b> Team work, make a tower as tall as possible using outdoor resources <b>Exploration:</b> explore the woodland in Spring. Safety, tree climbing <b>Conservation/biology:</b> prepare soil and sow seeds. Explore flower meadows and learn about their benefits <b>Survival/RE:</b> cooking. Build, start and put out a fire. Fire safety. Make Easter smores	<b>Survival:</b> Forage for wild garlic Make pesto. Work together to erect a tent. Competition <b>Art:</b> use natural resources to create a Mandala <b>Construction/Survival:</b> Tool safety, whittle a simple spoon <b>Science/Construction:</b> gather natural resources to make a mini wrap. RAt race- competition <b>PE/Construction:</b> use natural elements to create a circuit to work identified muscle groups	<b>Conservation/ Cooking/PSHE</b> Forage for ingredients, make a summer drink and enjoy with others over a summer picnic <b>Art:</b> Tool safety, use nature to create a hapa-zome <b>Survival:</b> Learn about common threats and learn to administer basic first aid <b>Science/Construction/Survival:</b> gather natural resources and construct water filters. Test for efficacy <b>PSHE/Wellbeing:</b> Forest mindfulness End of year picnic with exploration and team building games
<b>ICT-Incorporating Functional Skills</b>	<b>Networks</b> Interacting with ICT for a given purpose What is a network? Topologies Networking hardware and Software Wired and wireless networks Identifying if a network is working correctly Internet, internet services and the world wide web Threats to data Assessment	<b>E-Safety: digital citizenship</b> ICT based communications Fake news and how to identify it, biased writing, echo chambers and filter bubbles Cyberbullying Purpose of emotional manipulation Divisions in society and how these are created Hate speech Keeping safe when using sites Positive use of the internet Assessment	<b>Cryptography</b> History of Cryptography- Caesar cypher Solving computational problems Symmetric & Asymmetric-key cryptography Assessment	<b>Microsoft Applications</b> Word-page layout, formatting, wrapping text and inserting images Excel -inputting data into a spreadsheet, creating formulae, formatting, using functions in a spreadsheet, sorting & filtering Creating graphs in a spreadsheet Absolute and relative cell references Create a spreadsheet Assessment	<b>Coding Microbits, input &amp; output devices, meeting needs &amp; solving problems</b> O.B.1 representation Programming & hardware interaction Flow diagrams Creating and programming Experimenting with LEDs, motors, LDR's and capacitors Switching, conditional formatting, sound & animation Assessment	<b>Databases &amp; related terminology</b> Creating & using databases Creating queries to find specific data Selecting, sorting & filtering data for a specific task Logical reasoning Relational databases Assessment