

Year 8 Curriculum Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Mathematics	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	Graphs 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 Geometry and measures: Time
English	Ignite 2 It's a Mystery Assessment focus: Writing Reading activities: Private Peaceful Conventions of mystery genre How different texts can be structured to achieve different purposes	Ignite 2 Words of war Assessment focus: Reading Reading activities: Private Peaceful How text reflect the social and historical contexts. Language techniques to create specific atmosphere	Ignite 2 Technology Matters Assessment focus: Speaking and listening presenting Reading activities: Wonder Constructing a balanced argument	Ignite 2 Campaign for a Cause Assessment focus: Writing Reading activities: Wonder Techniques to encourage and promote	Ignite 2 Appearance and Reality Assessment focus: Reading Reading activities: Shakespeare: A Midsummer Night's Dream Writing techniques to engage the reader	Ignite 2 Power of Communication Assessment focus: Speaking and listening: Debating Reading activities: Shakespeare: A Midsummer Night's Dream Language to influence
Science	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, liquid 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 Magnetism and Gravity
Personal, Social, Health and Economic Education (PSHE)	Independence and aspirations Developing risk management skills, analytical skills and strategies to identify bias: Managing online presence Digital and media literacy	Autonomy and advocacy Developing respect for beliefs, values and opinions and advocacy skills: Stereotypes, prejudice and discrimination Promoting diversity and equality	Choices and influences Developing agency and strategies to manage influences and access support: Drugs and alcohol Introduction to contraception Resisting peer influence Online choices and influence	Independence and aspirations Developing goal setting, motivation and self awareness: Aspirations for the future Career choices Identity and the world of work	Autonomy and advocacy Developing communication and negotiation skills, clarifying values and strategies to manage influence: Healthy relationships Boundaries and consent LGBT+ Inclusivity Managing conflict	Choices and influences Developing agency and strategies to manage influence and access support: Maintaining positive mental health Importance of physical activity
Careers Education Information & Guidance (CEIAG)	Personal beliefs and values. Are school and work so different? What do you want from work? Ways employers recruit. Who does the job? Equality and stereotypes	Steps Booklet 2 Job families	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 Who does the job? How do you make decisions? The qualifications landscape Writing an action plan	Steps Booklet 2 Review learning.	
Physical Education	Practical: Badminton (Hook Football/Trampolining) Baseline Test: Cooper Run (Cardiovascular Endurance) Theoretical Content: Drugs in Sport	Practical: Basketball (Hook Football/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: Multi-stage 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: Sagitt Jump Test (Power) Theoretical Content: Injury Prevention
Art & Design	Close up 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 wild life park	The Natural World 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)	The Natural World 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)	Portraits 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)	Cubism Geometric shapes The principles of Cubism Colour Pattern Research using IT Annotate work Study the work of relevant artists Visit relevant galleries or museums (incl online)	Abstract 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)
ID Design	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 world we live in transported before the invention of the steam train 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 design is 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 make a sustainable living space.
Geography		Urbanisation Industrial Revolution Urbanisation across the world Regeneration - A look at Manchester Slivers Sustainability		China History Communism Population distribution Rural China Pollution Trade		Climate Change* Factors that influence climate and the impacts on humans Temperature and emissions Impact of human activity Global warming Actions to tackle climate change
RE		Islam Islam around the world Key Beliefs Muhammad The Quran Symbols Worship Festivals		Ethics 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.		Buddhism Buddhism around the world Key Beliefs The Buddha Buddhist scripture Practising Buddhism Symbols Festivals
History	The Industrial Revolution 1770-1842 Manufacture of products The impact of machines Factories, population and the creation of towns Power Child Labour, working conditions and reform Iron & Coal		The Slave Trade India, a British Empire 1600-1818 The role of 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	Terrible Towns 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		Noble to Victorian Britain: what changed? How and why people fought for improved rights, Peterloo, Kebleton Common Voting and women the rights and lives in the 18th and 19th century, so swim Life in a Victorian school, why and how did schools change? Pain, infection and clean lines, 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
Outdoor Learning	Introduction to Outdoor Learning: Exploring the woods Art Using nature to create tool safety Construction Knot tying to make a swing/frame Building a shelter, teamwork Survival Tracking using a map, orienteering PSHE/Wellbeing Forest mindfulness, yoga, cloud gazing, forest bathing	Survival Science Exploring Fire, fire safety, building a fire, putting out a fire Food bread, hot chocolate Conservation litter pick, making a bird feeder Using tools and crafting create festive decorations, tool safety Festive baking on the fire	Survival Science Fire safety, build, start and put out a fire Make popcorn Construction knot tying to make a bridge, team work Survival/Knife skills whittle a roasting fork Toast marshmallows Construction/PE Make and use natural obstacle course, Team building and competition Woodwork use a saw safely to saw a disc from a log Art create a piece of nail art. Use a hammer safely	Survival Tracking and orienteering using a map Conservation litter pick, make a plant pot out of discarded items, decorate and plant Construction Team work, make a tower as tall as possible using natural resources Exploration explore the woodland in Spring. Safety, tree climbing Conservation/Biology prepare soil and sow seeds. Explore flower meadows and learn about their benefits Survival/RE cooking. Build, start and put out a fire. Fire safety. Make Easter smores		Conservation/ Cooking/PSHE Forage for ingredients, make a summer drink and enjoy with others over a summer picnic Art Tool safety, use nature to create a hapa zo me Construction/Survival Tool safety, whittle a simple spoon Science/Construction/Survival gather natural resources to make a mini wrap. Ratt race competition PE/Construction use natural elements to create a circuit to work identified muscle groups
ICT-incorporating Functional Skills	Networks 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	Security: digital citizenship 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	Cryptography History of Cryptography Caesar cypher Solving computational problems Symmetric & Asymmetric key cryptography Assessment	Microsoft Applications 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	Coding Mi crobits, input & output devices, meeting needs & solving problems D & I representation Programming & hardware interaction Flow diagrams Creating and programming Experiments using LEDs, motors, IDR's and capacitors Switching, conditional formatting, sound & animation Assessment	Databases & related terminology Creating & using databases Creating queries to find specific data Selecting, sorting & filtering data for a specific task Logical reasoning Relational databases Assessment