



Curriculum Map for Year 7 2018 - 2019

denotes “anti-bullying” relevance; @ safeguarding, esafety; * mental health; and & nutrition

Subject/skills	Autumn Term	Spring Term	Summer Term
Maths 1 Analysing and displaying data 2 Number Skills 3 Expressions, functions and formulae 4 Decimals and measures 5 Fractions 6 Probability 7 Ratio & Proportion 8 Lines and Angles 9 Sequences and Graphs 10 Transformations	1 Analysing and displaying data "Describe, interpret and compare observed distributions of a single variable through: appropriate measures of central tendency (mean, mode, median) and appropriate measures of spread (range, consideration of outliers) construct and interpret vertical line (or bar) charts for ungrouped and grouped data" 2 Number Skills use conventional notation for the priority of operations round numbers and measures to an appropriate degree of accuracy recognise and use relationships between operations including inverse operations use the four operations, including formal written methods, with positive and negative integers order positive and negative integers use the concepts and vocabulary of prime numbers, factors [or divisors] and prime numbers use integer powers and associated real roots (square, cube) use approximation through rounding to estimate answers Half Term Test	5 Fractions "order decimals and fractions use the symbols =, ≠, <, >, ≤, ≥ use the four operations, including formal written methods, with positive and negative fractions define percentage as ‘number of parts per hundred’ interpret a percentage as a fraction or a decimal interpret fractions and percentages as operators" 6 Probability "use appropriate language of probability use the 0–1 probability scale understand that probabilities of all possible outcomes sum to 1 record, describe and analyse the frequency of outcomes of simple probability experiments involving randomness, fairness, equally and unequally likely outcomes" Half Term Test	8 Lines and Angles "use the standard conventions for labelling the sides and angles of triangle ABC draw and measure line segments and angles in geometric figures apply the properties angles at a point and on a straight line apply the properties vertically opposite angles derive and use the sum of angles in a triangle use the sum of angles in a triangle to deduce the angle sum in any polygon use known results to obtain simple proofs" 9 Sequences and Graphs "generate terms of a sequence from a term-to-term rule generate terms of a sequence from a position-to-term recognise arithmetic sequences find the nth term recognise geometric sequences and appreciate other sequences that arise work with coordinates in all four quadrants produce graphs of linear functions interpret mathematical relationships both algebraically and graphically" Half Term Test



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Maths	<p>3 Expressions, functions and formulae "substitute numerical values into formulae and expressions, including scientific formulae simplify and manipulate algebraic expressions to maintain equivalence: collecting like terms, multiplying a term over a bracket use and interpret algebraic notation: $3y$ in place of $y + y + y$ and $3 \times y$ model situations or procedures by translating them into algebraic expressions or formulae"</p> <p>4 Decimals and measures "understand and use place value for decimals order decimals and fractions use the symbols $=$, \neq, $<$, $>$, \leq, \geq understand and use place value for measures work with coordinates in all four quadrants use the four operations, including formal written methods, with positive and negative decimals derive formulae to calculate and solve problems involving perimeter and area of parallelograms"</p> <p>End of Term Test</p>	<p>7Ratio & Proportion "solve problems involving direct proportion use ratio notation reduce a ratio to simplest form divide a given quantity into two parts in a given part:part ratio use scale factors understand that a multiplicative relationship between two quantities can be expressed as a ratio or a fraction express the division of a quantity into two parts as a ratio"</p> <p>End of Term Test</p>	<p>10 Transformations "derive properties of regular polygons identify properties of, and describe the results of: translations identify properties of, and describe the results of: rotations identify properties of, and describe the results of: reflections"</p> <p>End of Term Test</p> <p>End of Year Test</p>
English literacy speaking & listening verbal communication organising	<p>The Class Novel Private Peaceful (Michael Morpurgo) # Inform, explain and describe Analyse, review and comment Speaking and listening activities</p> <p>Imaginative Writing SPAG focus</p> <p>Christmas Literature – The Polar Express Christmas Poems Narrative Writing</p>	<p>Media and Non Fiction Unit Analysing advertisements</p> <p>Introducing Dickens Context Focus on Oliver Twist # Inform, explain and describe Analyse, review and comment Unseen extracts</p>	<p>‘Journeys’ Unit Travel writing Writing to imagine, explore and entertain Poetry</p> <p>The Class Novel Holes (Louis Sachar) Inform, explain and describe Analyse, review and comment</p> <p>Non-fiction – context Extracts from various plays</p>



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Science analysing investigation correlation cause/effect sensitivity independence team work	<p>Acids & Alkalis Safety. Household acids & alkalis. Using indicators. The pH scale. Neutralisation. Everyday examples of neutralisation. <i>End of topic assessment.</i></p> <p>Bubbles, Bangs and Burning Characteristics of chemical reactions. Displacement reactions. How do acids react with metals? How do acids react with carbonates? Oxidation reactions. Fire safety. What happens when fuels burn? Gas tests. <i>End of topic assessment.</i></p> <p>Tissues and Transplants Organs, tissues, systems. Microscopes and cells. Plant/Animals cells. Specialised cells. Cell division. Unicellular / multi cellular organisms. Simple model of DNA. Watson & Crick. <i>APP task; Making Cell models.</i></p> <p>Classified What is variation? Relationships / correlations. Continuous and discontinuous variations. Inherited and environmental variations. How organisms affect their environments. Food webs/pyramids. &</p>	<p>Forces and Their Effects What can forces do? Measuring forces. How can we control friction? Springs. Gravity, mass and weight. Floating and sinking. Balanced Forces. Speed. Distance time graphs. Pressure. <i>End of topic assessment.</i></p> <p>Ski Week/Steam Week Spaghetti towers. Including a number of industry based speaker/activities and a visit to Newcastle University for a day of Practical sessions in Maths, Medicine, Computing and Biology.</p> <p>What a waste Solids, liquids & gases. Particle theory. Liquid and gas diffusion. Gas/Air pressure. Brownian motion. <i>APP task; Developing ideas about Particles, 3D Particle models.</i></p> <p>Electrical Circuits Electrical safety issues. Current electricity. Measuring current in series and parallel circuits. Changing current, using voltmeters. Modelling electricity. Resistance. How electricity can help or harm our bodies.</p>	<p>Solutions and Separating Mixtures Mixtures. Separation techniques. Purifying rock salt. Dissolving. Saturated solutions. Factors affecting solubility. Distillation. Chromatography. <i>Dissolving, (practical APP task).</i></p> <p>End of Y7 Assessment</p> <p>Magnetism Poles, attraction and repulsion. Force fields. Earth’s magnetism. Electromagnetism.</p> <p>Sex and Science <i>(Complemented by work in other curriculum areas) @</i> Reproduction in other Vertebrate groups. Sex cell adaptations. Male and female reproductive systems. Fertilisation and foetal development. The Birth.</p>
MFL lifelong learning integrity motivation consideration	<p>FRENCH</p> <p>C’est perso – likes and dislikes, describing yourself and others, using the verbs avoir and être.</p> <p>French Alphabet (Spelling Bee)</p> <p>Mon collège – talking about school subjects, asking questions, giving opinions with reasons, talking about food.</p>	<p>FRENCH</p> <p>Mes passetemps – talking about sports and activities you and other people do, using the verb aimer with infinitives, using the verbs jouer and faire.</p> <p>Je me présente – preparing and presenting a spoken presentation about yourself.</p>	<p>FRENCH</p> <p>Ma zone – talking about where you live, giving directions, using the verb aller, using the verb vouloir with infinitives.</p> <p>3 ... 2 ... 1 Partez! – talking about holidays, ordering drinks and snacks, using higher numbers, using the near future tense.</p>



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History Chronological Understanding Knowledge and Understanding Causation Change and Continuity Contrast and Comparison Interpretations Evaluation Organisation & Communication- Writing- sentences, paragraphs, introductions, conclusions, connectives, vocabulary, justification Reading – comprehension, selection, analysis, critical thinking, inference	'What is History?' 1066-1500 Why did the Normans win the Battle of Hastings? How did the Normans keep Control? Castles Project- Local History Visit How important was Magna Carta ? What was life like in Medieval Times ?	1500- 1600 The Princes in the Tower Mystery. The Wars of the Roses Why did Henry V111 reform the Church? Was Mary really Bloody? How did Elizabeth promote her image? Why did the Spanish Armada attack England?	1815-1922 How was Democracy in the UK developed? What was the Peterloo Massacre? What was the Great Charter? Emily Davidson: Mistake or martyr? WW1 Literacy project Surgery Through Time Prehistoric Surgery – Did people survive Stone Age surgery? What were the 3 problems of 18 th Century Surgery? How did 19 th Century Surgeons improve? Factors- How did War and Government help Surgery and Medicine?
Geography Problem solving awareness Global Commercial awareness Comparison	What is Geography? Human and Physical Geography Using an atlas to locate places – maps of the British Isles, Europe, the World and the Continents Map Skills – Scale, four figure and six figure grid references, direction, contour lines Interpreting and using OS Maps Using latitude and longitude to locate places Using photographs and field sketches in geography Self and surroundings – local Geography	Weather and Climate The different climate zones around the world describing and explaining the conditions in each. The difference between weather and climate and how they are both measured. Explaining why the weather in the UK changes so much. How and why pollution and global warming is occurring, their effects and how these issues can be addressed.	Population and Migration The factors that can affect the population of a place – natural increase and migration Describing and explaining patterns of population distribution in different places – case studies comparing MEDCs and LEDCs The impact of an increasing population on the environment – making links between people and their environments



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Art consideration research creativity reflectivity inspiration flexibility	Mark Making Look at artists who use various mark making techniques in their work. Collect visual imagery that expresses your theme or artist, including digital photography. Experiment with mixed media Develop a personal piece of imagery based upon the style of a chosen artist and your theme. Use of ICT resources Digital cameras, internet Assessment Ongoing assessment Realisation of ideas Appropriate use of materials and techniques for final outcome	Patterns and print Explore the use of pattern and mark making in print and textile design Explore use of a celebration as inspiration to create designs Research gift wrap, printing techniques and design illustration Develop findings into a final gift wrap set relating to natural forms and pattern design Use of ICT Digital camera and internet research Printing equipment Internet sites	Surrealism Look at a variety of artists that have used the landscape as inspiration in their work. Research Surrealism and its use of landscapes. Develop findings into a final surreal landscape and 3D related sculpture Use of ICT Digital camera Internet sites
Music preparation performing creativity time management confidence	Composing, Performing and Analysing Performing and composing structured keyboard melodies What makes a good tune? Sing a range of songs Soundscapes – performing and composing music graphic scores	Composing, Performing and Listening Medieval music and folk music Sing a range of songs	Melody and chords Write music in two parts Sing a range of songs Other activities Percussion ensemble Guitar ensemble School ensemble Ceilidh Band Choir
Computing IT Literacy computing e safety compassion initiative	E Safety # @ Cyberbullying Sharing information Staying Safe # @ What to do if you feel unsafe Creating a comic for Year 5 pupils on ESafety. # @	Spreadsheets – Unit 7.4 Students are working on developing their spreadsheet skills. They will produce a model for a snow school. Unit 7.6 ‘Game on Project’ looking at sequencing instructions and making their own computer games.	In the Summer Term Year 7 students study controlling technology and game design. Within this unit they look at how ICT is used within society and basic programming. Towards the end of the summer term students study animation and graphics using a range of different software packages.



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<p>Technology</p> <p>independence</p> <p>developing professionalism</p> <p>self-motivation</p> <p>confidence</p> <p>decision making</p> <p>responsibility</p>	<p>Design and Technology Cam Toys Mechanical principles Construction in wood Graphics</p> <p>ICT Digital camera to record Internet research</p> <p>Food Studies Raise the Roof! Focus on planning, writing instructions, organisational skills including weighing and measuring Nutrition: improving the diet by adding fruit and veg.</p> <p>Week 1: Rocking Rock cakes – school provides ingredients & Weighing and measuring Nutrition – sugars and complex carbohydrates in a balanced diet</p> <p>Week 2: Sweet Scones & School will provide pupils with basic scone ingredients and pupils will bring additional sweet ingredients. Nutritional contribution of all ingredients.</p> <p>Week 3: Mini carrot cakes. & Pupils will discuss the consequences of a diet high in sugar.</p> <p>Week 4: Savory scones & Pupils will use the skill of ‘rubbing in’ and apply their understanding of raising agents to develop their own savory scones.</p> <p>Week 5: Home-made savory scone base with a pizza topping - assessment of making skills & Children to bring 2 tomatoes to make a passata – blend all toms together with an onion and a bit of olive oil and basil.</p>	<p>Food studies unit two &</p> <p>Week 1- Thai green chicken curry. Pupils will discuss cross contamination and nutritional contribution of ingredients.</p> <p>Week 2- savoury puff pastry twists. Pupils will work with shop bought pastry to create savoury puff pastry twists. Pupils will discuss different pastry types and how they are made</p> <p>Week 3- herby veggie crumble. Pupils will use their knife skills (@) and use the ‘rubbing in’ technique to create a vegetarian crumble dish. Pupils will discuss the nutritional benefits of the dish and will plan and discuss adaptations of the recipes.</p> <p>Week 4- spicy tomato soup. Pupils will work in groups to make a soup. Pupils will discuss improvements and accompaniments and plan for the following lesson.</p> <p>Week 5- summer assessment chicken skewers, wedges and dip. Pupils will choose their potato type, skewer ingredients and a dip accompaniment. Pupils will understand how to create a healthy balanced meal and will be assessed on making appropriate healthy choices.</p>	<p>Vehicle challenge</p> <p>Electronic and working with forces Graphics</p> <p>Textiles unit completed</p> <p>Food studies &</p> <p>Focus on seasonality, where and how vegetables are grown and brought to the market; production and sourcing of other ingredients – noodles, soya sauce, oils etc.; principles of a healthy and varied diet – benefits of eating a wide range of vegetables</p> <p>Week 1: Stir fry research, design and cook!</p> <p>Week 2: Special stir-fries , working in groups</p>



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Recite	Working together Rules, law and fairness @ Rights and responsibilities/wants and needs Human rights – UN convention on the rights of the child @ How do different people/religions celebrate different times of the year The Christmas Story	Making healthy choices – tobacco @ The election process Local Government How councils work Attitudes and law The Incarnation of Jesus The Easter story	Sikhism Business enterprise – the duck project Bullying/spreading rumours # Issues surrounding friendships @ Body Image * Sex and relationships education @
Physical Education leadership flexibility compassion consideration self-motivation positive self-image commitment	Basketball Principles of invasion games, spacing and moves. Introduction to dribbling, larger games Gymnastics Sequencing on small and large apparatus Health Related Fitness @* Heart rate, target heart zone, aerobic, fitness for life. Exercise Types of Training Warm up and cool down Recovery Hockey Passing and receiving skills, safe tackling Small conditioned games Possession and attack Rules, tactics, possession Positional responsibilities Football – games for understanding small sided games Rugby – touch, small sided games introduction to contact	Rugby Introduction to forward play; recap back play Linking forwards to backs Introduction to contact Outdoor Education Team building Problem solving Yard Hockey Individual skills, decision making, transfer of tactics from basketball and football Volleyball Small sided games Revise principles for net games Netball Passing and receiving Footwork Positional responsibilities: shooting, rules and tactics Develop games up to 7-a-side Gymnastics/Dance—working on creative elements, precision, flow, replication.	Athletics 100 > 1500m Hurdles Long and high jump Shot, discus, javelin Indoor athletics Cricket Kwik cricket Pairs cricket Limited overs Tennis Progression onto larger court Introduction to doubles Rounders Individual skills Team play Rule of competition

