Year 5 Programme of Study

	Number & place Value • Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. • Count forwards or	Addition & Subtraction Add and subtract whole numbers with more than 4 digits. Add and subtract whole numbers	Multiplication & Division definity multiples and factors, including finding all factor pairs of a number, and common factors of two numbers, definity multiples and substantiation of the second se	Fractions (including decimals & %) Compare and order fractions whose decompares and another for the same number. V Identify, name and write equivalent fractions of a	Measurement Convert between different units of metric measure (for example, kilometre and metre;	Geo Id ar
	and compare numbers to at least 1 000 000 and determine the value of each digit.	whole numbers with more than 4 digits. Add and subtract	finding all factor pairs of a number, and common factors of two numbers. Know and use the vocabulary of prime	denominators are all multiples of the same number.	of metric measure (for example, kilometre and metre;	le l
+ + + heme: Powe	up b 1 000 000 b 0 0 0 0 0 0 0 0 0 0 0 0 0	with more than 4 digits, including uning formal wither methods (columnar addition and uniteraction) • <u>Add and subtract</u> <u>transfers</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>12402-</u> <u>1240</u>	 (non-prime) numbers. Establish whether a number up to 100 is prime and recail prime numbers up to 100. Mutiply numbers up to 4 digits by a one-of- to digit number using a formal written method, including long multiplication for two-digit numbers. Mutiply and divide numbers mentally drawing upon known facts. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. Mutiply and divide numbers and those involving decimals by 10, 100 and 1000. Recognise and use square numbers and cube numbers, and the notation for squared (i) and cubed (ii). Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. Solve problems involving multiplication and division in diving using the tracking understanding the meaning of the equals sign. Solve problems involving multiplication and division induding using the tracking understanding the meaning of the equals sign. Solve problems involving single fractions and problems involving single rates. 	 given fraction, represented visually, including terths and hundredths. Recognise mixed numbers and improper fractions and correct from one from to the other and write mathematical statements > 1 as a mixed number for example, if y + 1 = 1% = 1/2 + 1/2. Add and subtract fractions with the same idenominator and denomators that are multiples of the same number. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Read and use is bornal numbers as fractions from the same idenominator and enomators. Read and use is bornal numbers as fractions from the same identifies and realistications. Round decimals with two decimal places to the nearest whole number and to one decimal place. Stolve problems involving number up to fitnee decimal places. Solve problems involving number up to fitnee decimal places. Recognise the per cent relates to number of parts per hundred, and mixed preventages as a fraction with denominator 100, and as a docimal. Solve problems wholm requirels nowing neutree up to fitnee docimal places. 	centimetre and millerter, gram and kilogram, itre and millitreb, Vinderstand and use approximate equivalences between metric units and common imperial units such as inches, pounds and prints. Massure and calculate the perimeter of composite restilinear shapes in continuents and metres area of retangles (including supares), and including using standard units, square continuents (cm ²) and square metres (inc). Estimate the area of irregular shapes. Estimate the area of irregular shapes. Standard the area of irregular shapes. Solve problems involving converting between units of the after or perations to solve problems involving measure for example. length, mass, volume, morely using decimal notation, including scaling.	K de de D Di Li dentit
owl	ne: Pow ledge of	positive and mathematical and a set of the numbers, including through zero.	positive and numbers, including through zero. with increasing/L large numbers (example, 12.462 – 2.000 = 10 f.62) * Round any number up to 1000000 the nearest 10, 100, 100000. 'Use rounding to calculations and determine, in the context of a problems and problems and problems and numerals to 1000 (M) and recognise years written in Roman numerals. 'Wse include context, decing which operations and subtraction multi-step problems in contexts, decing which operations and methods to use and why. exercise that involve all of the above. 'Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. output contexts, decing which operations and why.	postive and numbers, including trough zero. number using the formal writen method of space numbers. number using the formal writen method of space numbers. 0 Round any number up to 100000 to the nearest 10100, 10000. 12.422 2.300 - 10 f22) and the numbers and theose externing. 0 Neurod any number up to 100000 to the nearest 10100, 100000. blse counding calculations and determine, in the problems and sources. Solve problems involving multiplication and discources. chose numbers and the notation for squared (0) and ucbed (0). 0 Solve numbers, problems and sources. chose addition multi-step problems in orners, deading which openation and write/solve Solve problems involving multiplication and discources. 0 Material columns and write/solve Solve problems involving multiplication and which openation of these, including understanding the meaning of the equals and problems involving simple rations and methods to use and why. energy Power Maths Ledge organisers will be sent out before each unit begins,	backwards with negative whole numbers, including through zero, up to 1000 to the nearest 10, 100, 1000, 1000 and 100 000. numbers including through zero, 100, 1000 to the nearest 10, 100, 100, 1000 and 100 000. numbers including through zero, 100, 1000 to the nearest 10, 100, 100, 1000 and 100 000. Numbers in the form with the method appropriately for the context. Numbers including through zero, 100, 1000 and 100 000. Numbers in the form with the decimal including science by 10, 00 and 100. Numbers in the form with the decimal including science by 10, 00 and 100. Numbers in the form with the decimal including science by 10, 00 and 100. Numbers in the form with the decimal places to the nearest 10, 100, 1000. Solve number problems and practical problems (M) and recognise years written in Roman numerals. Solve problems involving multiplication and division including using their knowledge of the above. Number is the form with the decimal places to the nearest whole numbers with the throw wall of the above. Number is the form with the decimal places to the nearest whole numbers with the orthowing number up to three sign. Number is the form with the decimal places. Number is the form with the decimal places. Solve problems involving addition, sign. Solve problems involving multiplication and division including using the framewall of the above. Solve problems involving multiplication and multiplication and division including using the framewall and problems involving angle faste. Number is the form with a decimal. Solve problems with operations and methods to use and with; Solve problems involving angle faste. Number is t	 backwards with mediative and megative whole muthers, including trough zero, the rough zero, the r

Times Tables: teaching and learning will be supported through the use of Times Table Rockstars and TT38 Scheme: Arithmetic Fluency: Fluent in 5

Art and Design	PSHE	Computing	Design Technology	Foreign Languages	Geography	History	Physical Education	Religious Education
Art and Design Autumn – • Ulysses Deriding Polyphemus –Turner - Romanticism • Marilyn Monroe – Andy Warhol –Pop Art • Op Art	 Scheme: Skills Partnership – Passport Autumn – Relationships Managing friendships and peer influence. Physical contact and keeping safe. Responding respectfully to a wide range of people. Recognising prejudice and discrimination. Spring – Living in the Wider World Protecting the environment. Compassion towards others. How information online is targeted. Different media types, their role and their impact. Identifying job interests and aspirations. What influences career choices. Workplace stereotypes. 	Computing Scheme: Kapow Autumn 1 - Online safety Autumn 2 - Computing systems and networks – Search Engines Spring 1 - Programming 1 - Programming Music (Scratch) Summer 1 - Spring 2Data handling – Mars Rover 1 Programming 2 – Micro:bit	Design Technology Autumn • Aspect of DT: Food • Focus: Celebrating culture and seasonality (including cooking and nutrition requirements for KS2) • Ginger biscuits for an advent calendar Spring • Aspect of DT: Electrical systems • Focus: Monitoring and control • Alarming Vehicles	Foreign Languages Scheme: Language Angels - Spanish Autumn Phonetics 1 I'm Learning Spanish Musical Instruments(E) Spring Fruits Summer Vegetables Music Instrument Instruction: Ocarina Scheme: Charanga	Geography Autumn - • Map skills Spring • Locational Knowledge and Climate Zones Summer • Field Study – The Weather	History Autumn – • The Anglo-Saxons and TheScots Annual whole school focus: • • Remembrance - ArmisticeDay: Women at War • • Gunpowder Plot: Impact of the Plot on Religion Spring – • • Life in Victorian Britain Summer – • • Local History Study – TheRise and Fall of Coalmining	Scheme: PE Hub Autumn Outdoor - Tag rugby Hockey Autumn Indoor – Gym unit 1 Dance unit 1 Spring Outdoor - Netball Tennis Spring Outdoor – Gym unit 2 Dance unit 2 Summer Outdoor - Cricket	Religious Education Autumn Islam – Muhammads life in Makkah, preaching and persecution. Dudley Syllabus 2021-2026 Spring Christianity – Adam and Eve and 'the fall' Dudley Syllabus 2021-2026 Summer Islam – Muhammad in Madinah, establishing a Muslim community Dudley Syllabus 2021-2026
Spr • • Sur	Responding respectfully to a wide range of people. Recognising prejudice and discrimination. ring – Living in the Wider World Protecting the environment. Compassion towards others. How information online is targeted. Different media types, their role and their impact. Identifying job interests and aspirations. What influences career choices. Workplace stereotypes. mmer – Health and Wellbeing Healthy sleep habits. Sun safety. Medicines, vaccinations, immunisations and allergies.	 systems and networks Search Engines Spring 1 - Programming 1 - Programming Music (Scratch) Summer 1 - Spring 2Data handling - Mars Rover 1 Programming 2 - Micro:bit Summer 2 - Creating media - Stop motion 	 (including cooking and nutrition requirements for KS2) Ginger biscuits for an advent calendar Spring Aspect of DT: Electrical systems Focus: Monitoring and control Alarming Vehicles Summer Aspect of DT: Structures 	 I'm Learning Spanish Musical Instruments(E) Spring Fruits Summer Vegetables Music Instrument Instruction: Ocarina Scheme: Charanga Autumn 1 – Livin' On A Prayer Autumn 2 – Classroom Jazz 1 	Summer	at War Gunpowder Plot: Impact of the Plot on Religion Spring – Life in Victorian Britain Summer – The Vikings Local History Study – TheRise and Fall of	 Gym unit 1 Dance unit 1 Spring Outdoor - Netball Tennis Spring Outdoor - Gym unit 2 Dance unit 2 Summer Outdoor - 	Spring Christianity – Adam and Eve and 'the fall' Dudley Syllabus 2021-2026 Summer Islam – Muhammad in Madinah, establishing a Muslim community
Gassed – John Singer Sargeant. - Realism		animation	 Focus: Frame structures Bird Hide 	 Spring 1 – Make You Feel MyLove Spring 2 – The Fresh Prince ofBel-Air Summer 1 – Dancing in theStreet Summer 2 – Reflect, rewindand replay 			• Swinning (catch up)	



Step 0: ages 4-7 Step 1 : ages 5-8 Step 4 : ages 8-11 Step 5 : ages 9-12 Mastery approach underpins the Framework – that means, no steps should be skipped and only when a step is mastered should learners move onto the next one. Mastery of a step is evident when a child or young person is regularly able to demonstrate that step in different contexts. Try New Things: Win a debate, build a ship, start a business, make an electromagnet, recognise regiments and use a power tool.





