



Listerdale Junior Academy – Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	W
	Number: Place Value		Number: Addition and Subtraction		Number: Multiplication and Division		Statistics Numb	Number: Fractions	Number: Decimals	Geometry: Shape	Measurement: Perimeter	Assessm
Autumn	National Curriculum objectives 1. Read, write, order and compare numbers to at least 1 000		National Curriculum objectives 1. Add and subtract whole numbers with more than 4 digits,		National Curriculum objectives 1. identify multiples and factors, including finding all factor pairs of a number,		National Curriculum objectives 1. Solve comparison, sum and	National Curriculum objectives 1. compare and order fractions whose denominators are all	National Curriculum objectives 1. Round decimals with two d.p to the nearest whole number	National Curriculum objectives 1. Identify 3-D shapes from 2-D representations	and Area National Curriculum objectives	
Each week:	000 and determine the value of each digit 2. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000		including using formal written methods 2. Add and subtract numbers mentally with increasingly large numbers		and common factors of two numbers 2. Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers		difference problems using information presented in a line graph	multiples of the same number 2. Identify, name and write	and to one d.p 2. Read, write, order and	Know angles are measured in degrees: estimate and	Measure and calculate the perimeter of composite rectilinear	
M- Daily arithmetic -10 qus	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers,		Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy		Establish whether a number up to 100 is prime and recall prime numbers up to 19		Complete, read and interpret information in tables, including timetables.	equivalent fractions of a given fraction, represented visually, including tenths and hundredths	compare numbers with up to three decimal places 3. use thousandths & relate	compare acute, obtuse and reflex angles 3. Draw given angles, and	shapes in centimetres and metres 2 Calculate and compare the area of rectangles (including squares), and	
T- Number of the week	including through zero 4. Round up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000		Solve multi-step problems in contexts, deciding which operations and methods to use and why		Multiply and divide numbers mentally drawing upon known facts Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Small Steps Week 1	Small Steps Week 1	them to tenths, hundredths & decimal equivalents Small Steps	measure them in degrees (o) Small Steps	including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes		
W- Daily arithmetic- 10 qus Th- Number connections	Solve number problems and practical problems that involve all of the above Read Roman numerals to 1000 and recognise years written		Small Steps		Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Solve problems involving multiplication and division including using their							
F – Daily arithmetic –10 qus	in Roman numerals		Add whole numbers numbers with more than 4		knowledge of factors and multiples, squares and		Read and interpret line graphs	Equivalent fractions x 2 Compare and order	Week 1 Rounding to 1 d.p	Week 1Properties of 2D and 3D shapes	Small Steps	
Daily arithmetic to include all operations at the appropriate level	Week 1 Counting in 10s, 100s, 1,000s, 10,000s and 100,000s (forwards and backwards) Numbers to 1 million Compare and order numbers to 1 million x 2 Week 2 Round numbers to 1 million x 2 Negative numbers		digits (column method) – 1 exchange Add whole numbers numbers with more than 4 digits (column method) – more than 1 exchange Subtract whole numbers numbers with more than 4 digits (column method) – 1 exchange Subtract whole numbers numbers with more than 4 digits (column method) – more than 1 exchange Week 2 Mental addition and subtraction (with increasingly large numbers) Inverse operations (+ and -) Multi-step addition and subtraction problems x2		Small Steps Week 1 Multiples Factors and common factors Prime numbers Square numbers Week 2 Cube numbers Multiply by 10, 100, 1,000 Divide by 10, 100, 1,000 Multiples of 10, 100, 1,000	 Draw lone graphs Use line graphs to solve problems Timetables 	Compare and order fractions less than one Compare and order fractions greater than one than one	Rounding to whole number Order and compare decimals 3 d.p use thousandths & relate them to tenths, hundredths & decimal equivalents	Identify angles Measure angles with protractor Draw angles with a protractor	Week 1 Calculate and measure perimeter Area of rectangles (cm and m) Area of compound shapes (cm and m) Area of irregular shapes (cm and m)		
Ensure differentiation takes place is needed												
Spring	Number: Place	Number: Multipli			Number: Fractions		Number: Decimal	s and Percentages	Number: Addition and	Measurement: Time	Measurement: Perimeter	Assessm
Each week: M- Daily arithmetic -10 qus T- Number of the week W- Daily arithmetic- 10 qus Th- Number connections F - Daily arithmetic -10 qus Daily arithmetic to include all operations at the appropriate level Ensure differentiation takes place is needed	Value National Curriculum objectives 1. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero 2. Round up to 1 000 000 to the nearest 10, 100, 1000, 1000 and 100 000 3. Solve number problems and practical problems that involve all of the above Small Steps Week 1 Rounding to 1 million Negative numbers Roman numerals to 1,000 Reasoning and problem solving	Number: Multiplication and Division National Curriculum objectives 1 Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit 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 3 Solve problems involving addition, subtraction, multiplication and division and a combination of these, understanding the meaning of the equals sign 4 Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates Small Steps Week 1 Multiply 2/3/4 digits by 1 digit x 2 Multiply 2/3/4 digits by 2 digits x2 Week 2 Divide 2/3/4 digits by 1 digit x 2 Divide with remainders x 2		National Curriculum objectives 1. compare and order fractions whose denominators are all multiples of the same number 2. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths 3. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number 4. Add and subtract fractions with the same denominators and denominators that are multiples of the same number 5. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Small Steps Week 1 Improper fractions to mixed numbers Mixed numbers to improper fractions Add fractions (inc within 1) Subtract fractions (inc within 1) Week 2 Add 3 or more fractions Add mixed numbers x 2 Subtract mixed number Subtract – breaking the whole Week 3 Multiply unit and non-unit fractions by integer Multiply mixed numbers by integer x 2 Calculate fractions of a quantity		National Curriculum objectives 1 Read and write decimal numbers as fractions [for example, 0.71 = 100 71] 2. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents 3. Round decimals with two d.p to the nearest whole number and to one d.p 4. Read, write, order and compare numbers with up to three decimal places 5. Solve problems involving number up to three decimal places 6. Recognise the % symbol and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal 7. Solve problems which require knowing percentage and decimal equivalents of and those fractions with a denominator of a multiple of 10 or 25 Small Steps Weeks 1 Equivalent FDP Decimals as fractions Rounding decimals to 2 D.P Ordering decimals Week 2 Decimals as fractions Understand percentages		Subtraction National Curriculum objectives 1. Add and subtract whole numbers with more than 4 digits, including using formal written methods. 2. Add and subtract numbers mentally with increasingly large numbers 3. Solve multi-step problems in contexts, deciding which operations and methods to use and why Small Steps Week 1 Adding four digits by more than 1 dgit Subtract four digits by more than 1 digit Reasoning and problem solving	(Previous years NC objective re-cap) Small Steps Week 1 Telling the time (begin at o'clock and move to minute) Converting between analogue and digital Drawing and reading time	and Area National Curriculum objectives 1. Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres 2. Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes Small Steps Week 1 Calculate perimeter Calculate area of compound shape Area of irregular shapes Reasoning and problem solving		





Summer	Number: Place	Number: Decimals	Number:	Geometry: Properties of Shape	Geometry: Position and Direction	Measurement: Covering Units	Measurement: Volume	Assessme
Each week: M- Daily arithmetic -10 qus	Value National Curriculum objectives	National curriculum objectives 1. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Multiplication and division	National Curriculum objectives 1. Identify 3-D shapes from 2-D representations	National Curriculum objectives 1. Identify, describe and represent the position of a shape following a	National Curriculum objectives 1. Convert between different units of metric measure	National Curriculum objectives 1. Estimate volume [for example, using 1 cm3 blocks to build cuboids	
T- Number of the week	Interpret negative numbers in context, count forwards and backwards	Round decimals with two d.p to the nearest whole number and to one d.p	National Curriculum objectives	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles The degrees (o) The degrees (o)	reflection or translation, using the appropriate language, and know that the shape has not changed	Understand and use approximate equivalences between metric units and common imperial units Solve problems involving converting between units of time	(including cubes)] and capacity [for example, using water]	
W- Daily arithmetic- 10 qus	with positive and negative whole numbers, including	Read, write, order and compare numbers with up to three decimal places	Solve problems involving number up to three decimal	4. Identify: angles at a point and one whole turn (total 360o)angles at a point on a straight line and 2 1 a turn (total 180o) other multiples of 90o	Small Steps	Small Steps	Small Steps	
Th- Number connections	through zero 2. Round up to 1 000 000 to the nearest 10, 100, 1000.	Solve problems involving number up to three decimal places	places 2,multiply and divide mentally drawing upon known facts	Use the properties of rectangles to deduce related facts and find missing lengths and angles Distinguish between regular and irregular polygons based on reasoning	Week 1	Week 1	Week 1	
F – Daily arithmetic –10 qus	10 000 and 100 000 3 Solve number problems and practical problems that	Small Steps Week 1	Small Steps	about equal sides and angles. Small Steps	 Position in the first quadrant Translation Translation with coordinates 	Mass conversion (ml, l, g, kg) Distance conversion (mm, cm, m, km) Kg to lb and inches to cm	What is volume?Compare volumeEstimate volume	
Daily arithmetic to include all operations at the appropriate level	involve all of the above Small Steps Week 1 Rounding to 1 million	Adding decimals with the same number of decimal places and adding decimals with different number of decimal places Adding wholes and decimals Complements to one	Week 1 Multiplying decimals by 10, 100, 1,000 Dividing decimals	Weeks 1 Identify angles and measure with a protractor Compare and order angles Drawing lines and angles accurately Calculating angles - straight line	Week 2 Lines of symmetry Complete a symmetric figure Reflection Reflection with coordinates	Lb to grams Week 2	Estimate capacity	
Ensure differentiation takes place is needed	Negative numbers Roman numerals to 1,000 Reasoning and problem solving	Week 2 Subtracting decimals with the same number of decimal places and subtracting decimals with different number of decimal places subtracting wholes and decimals Complements to one Decimal sequences Link complements to one to money – making £1	by 10, 100, 1,000 Multiply 4 digit by 2 digit Mental multiplication and division with known facts	Week 2 Calculating angles around a 360 point Triangles and Quadrilaterals Calculating lengths and angles in shapes Parallel and perpendicular lines (re-cap) – can embed as a statter Regular and irregular polygons	* Reliculori will Coolullates	Recap time to nearsest minute and 24 hour clock Converting units of time Timetables Check money — £/ps		

Any spare weeks in any term = gap analysis