

Year 1

Term	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	Place Value (within 10) Number of Small steps: 15 NCETM Spines: 1.1 (comparison context) 1.3, (numbers 0-5) 1.4 (numbers 6-10)					Addition and subtraction (within 10) Number of Small steps: 17 NCETM Spines: 1.2 (part whole model) 1.5, 1.6, 1.7					Geometry (shape) Number of Small steps: 5	Consolidation
Spring	Place Value (Within 20) Number of Small steps: 12 NCETM Spines: 1.10 (TP 1 and 2)			Addition and subtraction (within 20) Number of Small steps: 10 NCETM Spines: 1.10 (TP 5) 1.11 (TP 5 and 6)			Place value (within 50) Number of Small steps: 8 NCETM Spines: 1.9, 2.1		Length and height Number of Small steps: 3 NCETM Spines: 1.1		Mass and volume Number of Small steps: 7 NCETM Spines: 1.1	
Summer	Multiplication and Division Number of Small steps NCETM Spines: 2.1 (TP 1-3) could also ref back to 1.8 TP 2			Fractions Number of Small steps Year 1: Halving shapes or objects Year 1: Find a quarter of a shape or object		Position and direction Number of Small steps	Place value (within 100) Number of Small steps NCETM Spines: 1.9		Money Number of Small steps NCETM Spines: Spine: 2.1 (TP 4 – 6)	Measurement Number of Small steps		Consolidation

Year 2

Term	1	2	3	4	5	6	7	8	9	10	11	12	
Autumn	Place Value Number of Small steps: 16 NCETM Spines: 1.9 (revisit Year 1 PV to 100) 2.1 (count in 2s, 5s, 10s)				Addition and subtraction Number of Small steps: 21 NCETM Spines: Could refer back to 1.2 (for part-whole), 1.8 (support with tens and bonds to 100), 1.9 (TP 6 using PV for fact families) 1.7 (fact families inverse etc.) 1.14 (add and sub tens, 10 more less) 1.13 - (covers most small steps) 1.14, 1.15 1.16 (subtraction 2 digit 2 digit, bonds 10s and 1s) 1.11 (three addends) 2.1 (TP 2 bonds to 100 from Y3)					Geometry (shape) Number of Small steps: 12		Consolidation	
	Money Number of Small steps: 10 NCETM Spines: revisit 2.1 (TP 4-6) Use Add & Sub skills from previous block and apply to money (y4 is next spine on money)		Multiplication and division Number of Small steps: 17 NCETM Spines: 2.2, 2.3 (TP1) 2.5 (arrays) 2.3 (2x table), 2.4 (10 and 5 x table) (1.4 and 1.10 TP 3 if needed to refer back to y1 odd/even numbers) 2.6 - (TP 1-3 sharing and grouping) (TP 4 divide by 2, 5, 10)					Length and height Number of Small steps: 5 NCETM Spines: could ref back to 1.1		Mass, capacity and temperature Number of Small steps: 9			
Spring	Fractions Number of Small steps NCETM Spines: Key Stage 1 Fractions			Time Number of Small steps			Statistics Number of Small steps NCETM Spines: Some ideas in 1.12 but this is mainly a focus on difference		Position and direction Number of Small steps		Consolidation		
Summer	Fractions Number of Small steps NCETM Spines: Key Stage 1 Fractions			Time Number of Small steps			Statistics Number of Small steps NCETM Spines: Some ideas in 1.12 but this is mainly a focus on difference		Position and direction Number of Small steps		Consolidation		

Year 3

Term	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	Place Value Number of Small steps: 14 NCETM Spines: 1.17 (TP1 hundreds, 1000, 50s, 25s) 1.18 (TP1 100s,10s,1s) (TP2 number line to 1000) (TP3 1,10,100 more or less) (TP4 compare order)			Addition and subtraction Number of Small steps: 22 NCETM Spines: 1.18 (TP 5 add and sub multiples of 100) 1.19 1.17 (TP 3 + 4 crossing 10s and 100s) 1.20 (written addition) 1.21 (written subtraction)				Multiplication and division A Number of Small steps: 15 NCETM Spines 2.6 (revisit for equal groups) 2.8 (TP 1 mult and divide by 3) 2.7 (mainly TP2 mult divide by 4 incl 4x table) (TP3 & 4 mult and divide by 8 incl 8x table)				
Spring	Multiplication and division B Number of Small steps: 11 NCETM Spines: 2.6 TP4 related 2.13 (TP 6 related facts taken from y4) 2.19 (related facts taken from y5) 2.17 and 2.8 (TP 5 scaling) 2.14 (select from TP 1 & 2) 2.15 (TP 1) (Concrete resources best for this topic)			Length and perimeter Number of Small steps: 12 NCETM Spines: 2.16 (TP 1 to introduce)		Fractions A Number of Small steps: 10 NCETM Spines: revisit Key Stage 1 3.1, 3.2 3.6 (TP 3 Fractions of amounts)			Mass and capacity Number of Small steps: 11			
Summer	Fractions B Number of Small steps NCETM Spines: 3.3 (compare and order) 3.4 (add and sub fractions) 3.7 (select from TP 1 + 2 only)		Money Number of Small steps NCETM Spines: revisit 2.1 1.25 (select appropriate)		Time Number of Small steps			Shape Number of Small steps		Statistics Number of Small steps		Consolidation

Year 4													
Term	1	2	3	4	5	6	7	8	9	10	11	12	
Autumn	Place Value Number of Small steps: 17 NCETM Spines: 1.17 (count in 25s), 1.22, 1.27 (negative numbers)			Addition and subtraction Number of Small steps: 10 NCETM Spines: 1.22 (TP 3 add sub 1s,10s, 100s, 1000s and TP5). Refer back to 1.20 and 1.21 for introducing written methods.				Area Number of Small steps: 4 NCETM Spines	Multiplication and division A Number of Small steps: 13 NCETM Spines: 2.6 (TP5 for $x \div 0$ and 1), 2.8 (6x and 9x), 2.9 (7x), 2.13 ($x \div 10,100$)				
	Multiplication and division B Number of Small steps: 15 NCETM Spines: 2.10 (factor pairs), 2.11 (11x, 12x & efficient mult), 2.14 (multiplication) 2.15 (division) 2.12 (remainders)			Length and perimeter Number of Small steps: 9 NCETM Spines:		Fractions Number of Small steps: 15 NCETM Spines: May need to visit 3.0 (KS1 fractions) & Year 3 for intro. 3.4 (add and sub fractions) 3.7 (equiv - TP1 & TP2), 3.5 (be selective - show more than one whole in fractions, count on & back past 1, add & sub)			Decimals A Number of Small steps: 10 NCETM Spines: (Revisit 2.13 for $\div 10$ and 100), 1.23 (tenths, hundredths), 1.24 (mainly TP 1 and some of TP2)				
Summer	Decimals B Number of Small steps: NCETM Spines: NCETM Spine: 1.24 (TP2, TP7)		Money Number of Small steps NCETM Spines: e: 1.22 (TP 4 estimate money) 1.25		Time Number of Small steps NCETM Spines:		Consolidation	Shape Number of Small steps NCETM Spines:		Statistics Number of Small steps NCETM Spines:		Position and direction Number of Small steps: NCETM Spines: Spine: 1.27 TP 6	

Year 5

Term	1	2	3	4	5	6	7	8	9	10	11	12	
Autumn	Place Value Number of Small steps: 14 NCETM Spines: 1.26 1.27 (negative numbers)			Addition and subtraction Number of Small steps: 8 NCETM Spines: revisit 1.22 (TP 3 and TP5) and 1.20, 1.21 for written methods. 1.29 (strategies and mental methods as opposed to written. Includes decimals) 1.29 (TP 3 difference) 1.29 (TP 6 estimate, approximate, inverse) 1.28 (multi-step problems)		Multiplication and division A Number of Small steps: 10 NCETM Spines 2.21 (factors multiples prime) 2.9 (square numbers) 2.13 (mult divide 10,100,100) 2.19 (10,100,1000) 2.20 (cube numbers) 2.18 (maybe stand alone as equivalence)			Fractions A Number of Small steps: 17 NCETM Spines: revisit parts of earlier fractions to prepare for topic (3.1, 3.2, 3.3, 3.4) 3.7 (equivalents and simplifying, compare order), 3.8 (add and subtract), 3.5 improper and mixed, 3.6 multiplying				
	Multiplication and division B Number of Small steps: 11 NCETM Spines: 2.23 (area model) 2.15 (division) 2.14 (written multiplication)			Fractions B Number of Small steps: 7 NCETM Spines: revisit parts of earlier fractions to prepare for topic (3.1, 3.2, 3.3, 3.4) 3.7 (equivalents and simplifying, compare order), 3.8 (add and subtract), 3.5 improper and mixed, 3.6 multiplying		Decimals and percentages Number of Small steps: 15 NCETM Spines: continue from y4 1.23 and 1.24 (1/10, 1/100, 1/000ths) 1.24 (TP 3 compare and order) 3.10 FDP (TP1,TP2,TP4, TP5)			Perimeter and area Number of Small steps: 6 NCETM Spines: revisit 2.16		Statistics Number of Small steps: 5 NCETM Spines: Some examples in 1.28 and 1.29		
Spring													

Summer	Shape Number of Small steps: NCETM Spines: 1.28 (some ideas in TP4)	Position and direction Number of Small steps NCETM Spines: 1.27 TP 6	Decimals Number of Small steps NCETM Spines: ref back to 1.23 TP 4 -6 1.24 (TP 4 & 6) 2.19 TP 2 and 2.29 (decimals by 10,100,1000)	Negative numbers Number of Small steps NCETM Spines: 2.27 (Negative numbers: counting, comparing and calculating)	Converting units Number of Small steps NCETM Spines: 1.24 TP5	Volume Number of Small steps: NCETM Spines: 2.20
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Year 6

Term	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	Place Value Number of Small steps: 8 NCETM Spines: : revisit y5 1.26PV 1.30 (mainly TP2 and TP3) 1.30 (TP 5 rounding)		Addition, subtraction, multiplication and division Number of Small steps: 17 NCETM Spines: 1.30TP 4 (revisit 1.20 and 1.21 for column) 1.30 (maybe use to secure PV and counting through boundaries using mental methods TP4 and fluency including RPS in TP6) 2.24 (division - ref back to 2.15 if necessary) 2.23 long multiplication 2.21 common factors, common multiples, primes 2.20 cubes and ref back to 2.9 for square numbers 2.22 and 2.28 (order operations) 2.25 (reason known facts)				Fractions A Number of Small steps: 9 NCETM Spines 3.7 simplify equivalent incl. number line revisit 3.5 mixed number improper fraction add, sub, number line 3.8 add and sub fractions 3.8 TP 5 (compare denom. and numerator) 3.9 Multiply, divide 3.9 fractions of amounts TP1 - revisit 3.6 TP 3			Fractions B Number of Small steps: 7 NCETM Spines: 3.7 simplify equivalent incl. number line revisit 3.5 mixed number improper fraction add, sub, number line 3.8 add and sub fractions 3.8 TP 5 (compare denom. and numerator) 3.9 Multiply, divide 3.9 fractions of amounts TP1 - revisit 3.6 TP 3		Converting units Number of Small steps: 5 NCETM Spines: 2.29 TP2 (metric only)
	Ratio Number of Small steps: 10 NCETM Spines: 2.27	Algebra Number of Small steps: 10 NCETM Spines: 1.28, 1.31	Decimals Number of Small steps: 9 NCETM Spines: TP 1.24 for 3 D.P, revisit 2.29 - multi div 10,100,1000 2.19 mult div decimals by integers 2.28 (some support with division problems but no decimals) 3.10 fraction decimal	Fractions, decimals and percentages Number of Small steps: 9 NCETM Spines:	Area, perimeter and volume Number of Small steps: 8 NCETM Spines: 2.30 area perimeter (revisit 2.16) 2.20 volume	Statistics Number of Small steps: 6 NCETM Spines: 1.28 TP3 (pie chart, bar chart - missing values focus) 3.10 TP6 - percentage context, 2.26 mean average						
Spring	Shape Number of Small steps: NCETM Spines: 1.28 TP4 (missing angles only)		Position and direction Number of Small steps NCETM Spines: 1.27 TP 6	Themed projects Consolidation Problem solving								
Summer												

