

Pye Green Academy

Yearly Maths Overviews including links to NCETM Spine Materials to support Catch Up Provision





YEAR 1

NCETM Spine link reference (TP = Teaching Point)

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Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Numl NCETM S 1.3, (numl Note: part-wh		Addition and 10) Small Steamer: 1.2 (par 1.6, 1	eps: 18 t whole mo		Geometry: Shape Small Steps: 5 NCETM Spine: N/A	mall steps: 8 eps: 5 CETM (TP 1 and 2) ne: N/A					
Spring	Number: Ad	includes	Place Value (value) Small Steps: 9 TM Spine: 1.9	es and 5s	and Smal	ment: Length I Height I Steps: 3 I Spine: <u>1.1</u>	rement: nd Volume Steps: 6 Spine: <u>1.1</u>	Consolidation				
Summer	Sn NCETM Spir	Multiplication Division nall Steps: 7 ne: 2.1 (TP 1 f back to 1.8	-3) could	Number: Fractions Small Steps: 4 NCETM: Key Stage 1 Year 1: Halving shapes or objects Year 1: Find a quarter of a shape or object		Geometry: Position & Direction Small Steps: 3 NCETM Spine: N/A	Value (wi	Number: Place Value (within 100) Small Steps: 6 NCETM Spine: 1.9		Small S	ment: Time Steps: 6 Spine: N/A	Consolidation

NOTES: NCETM encourages teaching numbers from 20-100 (1.8 + 1.9 NCETM SPR 2, SUM 1 and SUM 4) before learning the 11-20 teen numbers (1.10 NCETM AUT 4) which is different to the White Rose planning. This should be considered when planning. 'This segment will give children a sense of the regularity of number naming up to 100 before they begin to work on irregularly named teen numbers'. However, TP 1.9 will need tailoring as to not include numbers 11-20

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White Rose Overview: https://whiterosemaths.com/resources/schemes-of-learning/primary-sols/ NCETM Teaching for Mastery home page: https://www.ncetm.org.uk/teaching-for-mastery/





YEAR 2

NCETM Spine link reference (TP = Teaching Point)

Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	Small Steps: 10 NCETM Spine: 1.9 (revisit Year 1 PV to 100) 2.1 (count in 2s, 5s, 10s)				Small Steps: 16 ETM Spine: Could refer back to 1.2 (for part-whole), 1.8 (support the 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)					teps: 10 e: revisit 2.1 4-6) ub skills from ock and apply 4 is next spine oney)	2.5 (arrays) 2.3 (2x table), 2.4 (10 and 5 x tabl		
Spring	Dir Small NCETM Spine: (needed to r odd/eve 2.6 - (TP 1-3 sha	Der: Multiplication and Division Small Steps: 6 Spine: (1.4 and 1.10 TP 3 if led to refer back to y1 dd/even numbers) 1-3 sharing and grouping) 4 divide by 2, 5, 10) Statistics Small Steps: 6 NCETM Spine: some ideas in 1.12 but this is mainly a focus on difference			Geometry: Properties of Shape Small Steps: 12 NCETM Spine: N/A s is			Number: Fractions Small Steps: 12 NCETM Spine: Key Stage 1 Fractions 1: Name the fractions 'one-half', 'one-quarter' and 'one-third' in relation to a fraction of a length, shape or set of objects. 2: Read and write the fraction notation 12, 13 and 14, and relate this to a fraction of a length, shape or set of objects. 3: Find half of numbers. 4: Find 1/3 or 1/4 of a number. 5: Find 2/4 and 3/4 of an object, shape, set of objects, length or quantity; recognise the equivalence of 24 and 12.			Measurement: Length & Height Small Steps: 5 NCETM Spine: could ref back to 1.1	Consolidation	
Summer	Geometry: Position and Direction Small Steps: 4 NCETM Spine: N/A			solving and t methods	Small S	nent: Time Steps: 6 pine: N/A	Measurement: Mass, Capacity and Temperature Small Steps: 7 NCETM Spine: N/A			Investig	gations		

NOTES: Struggling to match in 1.12 to WR so could be used as a separate focus on subtraction and difference. May need to modify some skills on NCETM for bonds to 100 (10s and 1s) example 1.16.

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YEAR 3

NCETM Spine link reference (TP = Teaching Point)

Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Wk 12
Autumn	Nu NCETM Spine: <u>1.1</u> <u>1.18</u> (TP1 100s,10 (TP3 1,10,100 mo	NCETI	ddition and Sub mall Steps: 18 FP 5 add and sub 1.19 4 crossing 10s a (written addition written subtracti	Number NCETM Spir 2.8 (T 2.7 (mainly T (TP3 & 4 mi	Consolidation							
Spring	Number: Multiplication and Division Small Steps: 9 NCETM Spine: 2.6 TP4 related Small Steps: 5 NCETM Spine: 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) Measures: Money Small Steps: 3 NCETM Spine: revisit 2.1 1.25 (select appropriate)					Steps: 3		ent: Length and Small Steps: 8 ne: <u>2.16</u> (TP 1 to		Smal NCETM Spine	er: Fractions I Steps: 9 : revisit Key Stage 1, 3.2 tions of amounts)	Consolidation
Summer	3.3 (3.4 (a	umber: Fractions Small Steps: 7 NCETM Spine: compare and ord dd and sub fracti ect from TP 1 + 2	ler) ons)	Measurement: Time Small Steps: 11 NCETM Spine: N/A			Geometry: P sha Small S NCETM Sp	ipe teps: 9	Measu	rement: Mass a Small Steps: NCETM Spine:	8	Consolidation

NOTES: Will have to dip into 'year 4' (3.5, 3.6) and even year 5 (3.7) for equivalent fractions on the NCETM spine for some lessons. Will also have to revisit early fraction work a lot for deep understanding.

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YEAR 4

NCETM Spine link reference (TP = Teaching Point)

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Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	NCETM	Small Ste Spine: 1.17 (c 1.27 (negati	ps: 13 count in 25s),	· 	Si NCETM Sp 1s,10s,100s back to	per: Addition Subtraction mall Steps: 10 ine: 1.22 (TP s,1000s and 1 o 1.20 and 1. ing written m	0 3 add sub ⁻ P5). Refer <mark>21</mark> for	Measures: Length & Perimeter Small Steps: 5 NCETM Spine: 2.16	Numbe NCETM Spi 1), <u>2.8</u> (6x a	Consolidation		
Spring	NCETM Spir 2.11 (11x, 2.14 (multip	tiplication and Steps: 11 ne: 2.10 (facto 12x & efficien lication) 2.15 (remainders	Measures: Area Small Steps: 4 NCETM Spine: 2.16	Number: Fractions Small Steps: 10 NCETM Spine: 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)				(Revisit 1.23 (ter (mainly	Consolidation			
Summer	Number: E Small St NCETM Spine TP7	Decimals eps: 6 : <u>1.24</u> (TP2,	Measu Mo Small NCETM Spi	Steps: 4 ine: 1.22 (TP money) 1.25	Measures: Time Small Steps: 4 NCETM Spine: N/A	Small S	istics iteps: 4 pine: N/A	S	: Properties Small Steps: 6 ETM Spine: N	•	Geometry: Position & Direction Small Steps: 4 NCETM Spine: 1.27 TP 6	Consolidation

NOTES: you may want to go back to earlier year groups when appropriate. For example, in add and subtract it would be worth visiting the year 3 introduction to column methods with 3 digit numbers before moving on to 4 digit numbers. It may say this on the spine materials.

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YEAR 5

NCETM Spine link reference (TP = Teaching Point)

Term	Week 1 Week 2 Week 3	Week 4	Week 5	Week 6 Week 7	Week 8	Week 9	Week 10	Week 11	Wk 12
Autumn	Number: Place Value Small Steps: 11 NCETM Spine: 1.26 1.27 (negative numbers)	Number: Addition Small St NCETM Spine:revisi TP5) and 1.20, 1. method 1.29 (strategies and as opposed to wr decim 1.29 (TP 3 di 1.29 (TP 6 estimate inverse 1.28 (multi-ste	eps: 5 it 1.22 (TP 3 and 21 for written ods. mental methods ritten. Includes als) ifference) e, approximate, se) p problems)	Statistics Small Steps: 6 NCETM Spine: some examples in 1.28 and 1.29	Number: Multi and Divi Small Ste NCETM S 2.21 (factors prime 2.9 (square n 2.13 (mult 10,100,1 2.19 (10,100 2.20 (cube n 2.18 (maybe st as equival	eps: 9 epine: multiples e) numbers) divide 100) 0,1000) umbers) tand alone	a Sma NCETM Sp	ment: Perimeter nd Area all Steps: 5 pine: revisit <u>2.16</u>	Consolidation
Spring	Number: Multiplication and Division Small Steps: 7 NCETM Spine: 2.23 (area model) 2.15 (division) 2.14 (written multiplication)	· ·	Sr visit parts of earlier ad simplifying, com	mber: Fractions mall Steps: 20 fractions to prepare f pare order), 3.8 (add a ced, 3.6 multiplying	· · · · · · · · · · · · · · · · · · ·		and F Sma NCETM 5 from y4 <u>1.2</u> 1/100 <u>1.24</u> (TP	er: Decimals Percentages II Steps: 10 Spine: continue 23 and 1.24 (1/10, 0, 1/000ths) 3 compare and order) TP1,TP2,TP4, TP5)	Consolidation
Summer	Number: Decin Small Steps: 1 NCETM Spine: ref back to 1.24 (TP 4 & 0 2.19 TP 2 and 2.29 (decimals	Smal NCETM	operties of Shape I Steps: 9 Spine: N/A e ideas in TP4)	Geometry: Measur Position & Converti Direction Small S Small Steps: 5 NCETM Spine 1.27 TP 6		rement: ing Units iteps: 6 pine: (<u>1.24</u>	Measures: Volume Small Steps: 4 NCETM Spine: 2.20	Consolidation	

NOTES: Lots of revisiting needed (see previous year groups). Big emphasis on FDP. This NCETM Spine Link directs you to the page including all three spines (Add and Subtract, Multiplication and Division, Fractions) and the hyperlinks on the document takes you to the relevant segment which offer: teacher guidance, PowerPoint representations, and video guidance.

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YEAR 6

NCETM Spine link reference (TP = Teaching Point)

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Term	Wk 1 Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12
Autumn	Number: Place Value Small Steps: 4 NCETM Spine: revisit y5 1.26PV 1.30 (mainly TP2 and TP3) 1.30 (TP 5 rounding)	Number: Place Value Small Steps: 4 CETM Spine: revisit y5 1.26PV 1.30 (mainly TP2 and TP3) Number: Add. Su Sumber: Add. Su Sum				Number: Fractions Small Steps: 16 NCETM Spine: 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				Geometry: Position & Direction Small Steps: NCETM Spine: 1.27 TP 6	Consolidation
Spring	Number: Decimals Small Steps: 9 Spine: revisit 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	Numl Percen Small St NCETM Spi	tages eps: 6	Number: Small St NCETM Spine	eps: 10	Measures: Convert Units Small Steps: 5 NCETM Spine: 2.29 TP2 (metric only)	Perimo and Small NCETM area p	urement: eter, Area Volume I Steps: 8 Spine: 2.30 perimeter isit 2.16) Volume	Sma	ber: Ratio Il Steps: 7 I Spine: <u>2.27</u>	Consolidation
Summer	Geometry: Property of Shape Small Steps: 11 NCETM Spine: 1.28 TP4 (missing angles only)	Problem	Solving	Statis Small Statis NCETM Spine: chart, bar chart, bar chart values of the state of	teps: 8 1.28 TP3 (pie art - missing focus) ercentage			Investigation	ns		Consolidation

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