HECKINGTON ST. ANDREW'S C OF E PRIMARY SCHOOL



MATHS CURRICULUM AND PROGRESSION DOCUMENTS



<u>Intent</u>

Our Mathematics curriculum is underpinned by the **National Curriculum** Programmes of Study. Teaching and learning in Mathematics is predominantly done in discrete subject lessons. There is an entitlement to one mathematics lesson per day for all pupils. We use a **mastery** approach to learning in Mathematics, meaning that we ensure that all pupils are confident and proficient in the planned **knowledge** and **process knowledge** (skills) before moving on to new content. Wherever possible, pupils are challenged in their thinking and encouraged to deepen their mathematical **understanding**. Our curriculum enables competent and confident mathematicians, who are able to reason.

Implementation

Class teachers follow our curriculum progression documents to underpin their planning and teaching, and carefully plan for an appropriate balance of pictorial and concrete resources, alongside abstract problems, to ensure that all pupils are able to progress within individual lessons, and across a sequence, using mastery approaches. Formative assessment practices identify any learning gaps within individual lessons to inform continuous feedback and next steps for pupils, allowing teachers to plan supplementary lessons where required. Teachers ensure there is sufficient time for regular, focussed rehearsal of core number facts that are essential to solving mathematical calculations and problems.



Golden Threads for Maths

<mark>Relationships</mark>	<mark>Respect</mark>	Responsibility	<mark>Resilience</mark>	Reverence
 We are helpful We work as a team We are kind and caring We are good communicators 	 We are active listeners We show good manners We care for our environment We show consideration for others 	 We own our actions We are self- motivated We are good role models We are in control of our learning 	 We keep going We believe in ourselves We have a go We persevere 	 We show empathy We are reflective We experience awe and wonder We practice stillness

Long Term Plans

EYFS

EYFS	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Pattern: Matching	Number and Pattern: Counting	Coming soon
Week 2	Number and Pattern: Sorting	Number and Pattern: Counting and ordering	Coming soon
Week 3	Shape, Space and Measure: Comparing and ordering	Number and Pattern: Counting	Coming soon
Week 4	Number and Pattern: AB Patterns	Number and Pattern: Addition	Coming soon
Week 5	Number and Pattern: Counting	Number and Pattern: Comparing and ordering	Coming soon
Week 6		Number and Pattern: Counting	Coming soon
Week 7	Shape, Space and Measure: Time		Coming soon
Week 8	Number and Pattern: Composition of numbers up to	Number and Pattern: Patterns	Coming soon
Week 9	5	Shape, Space and Measure: Measuring lengths and heights	Coming soon
Week 10	Shape, Space and Measure: 2D shapes	Shape, Space and Measure: Capacity	Coming soon
Week 11		Shape, Space and Measure: 2D shapes	Coming soon
Week 12	Shape, Space and Measure: Positional language	Shape, Space and Measure: 3D shapes	Coming soon

Year 1 (110 white space days)

Y1 Edited	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Place value: Numbers to 10	Addition and subtraction within 20	Multiplication
Week 2	Place value: Numbers to 10	Geometry: Properties of Shape	Division
Week 3	Addition and subtraction	Geometry: Properties of Shape	Fractions
Week 4	Addition and subtraction	Measurement: Length and Height	Place value: Numbers to 100
Week 5	Addition and subtraction	Review and Remediation	Place value: Numbers to 100
Week 6	Addition and subtraction	Review and Remediation	Measurement: Time
Week 7	Addition and subtraction	Place value – Numbers to 40	Measurement: Money
Week 8	Geometry: Position and Direction	Place value – Numbers to 40	Measurement: Volume and capacity
Week 9	Geometry: Position and Direction	Addition and subtraction	Measurement: Mass
Week 10	Place value: Numbers to 20	Addition and subtraction	Geometry: Position and Direction
Week 11	Place value: Numbers to 20	Spring Term Assessment Week	Revision and End-of-year tests

Week 12 Addition and subtraction within 20 Multiplication Review and Review	emediation

Year 2 (72 white space days)

Y2 Edited for SATs	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Place value: Numbers to 100	Multiplication and division of 2, 5 and 10	Measurement: Time
Week 2	Place value: Numbers to 100	Multiplication and division of 2, 5 and 10	Measurement: Time
Week 3	Place value: Numbers to 100	Measurement: Length	Consolidation week
Week 4	Addition and subtraction	Measurement: Length	Geometry: 2D Shapes
Week 5	Addition and subtraction	Fractions	Geometry: 2D/ 3D Shapes
			SATS week
Week 6	Addition and subtraction	Fractions	Geometry: 2D/3D Shapes

Week 7	Addition and subtraction	Fractions	Measurement: Mass
Week 8	Addition and subtraction	Measurement: Money	Measurement: Mass
Week 9	Consolidation week	Measurement: Money	Measurement: Volume
Week 10	Multiplication of 2, 5 and 10	Statistics: Picture Graphs	Measurement: Volume
Week 11	Multiplication of 2, 5 and 10	Assessment and consolidation week	Review and revisit
Week 12	Multiplication of 2, 5 and 10	Measurement: Temperature	Review and revisit

Year 3 (17 white space days)

Y3 Edited	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Place value: Numbers to 1000	Measurement: Length	Statistics
Week 2	Place value: Numbers to 1000	Measurement: Length	Fractions
Week 3	Addition and subtraction	Measurement: Mass	Fractions
Week 4	Addition and subtraction	Measurement: Volume	Fractions
Week 5	Addition and subtraction	Measurement: Volume	Fractions
Week 6	Addition and subtraction	Measurement: Money	Fractions
Week 7	Addition and subtraction	Measurement: Money	Geometry – angles
Week 8	Multiplication and division	Measurement: Money	Geometry – angles, lines
Week 9	Multiplication and division	Measurement: Time	Geometry – shapes
Week 10	Multiplication and division	Measurement: Time	Measurement: perimeter of figures
Week 11	Further multiplication and division	Spring Term Assessment Week	Measurement: perimeter of figures
Week 12	Further multiplication and division	Measurement: Time	Review and revisit

Year 4 (44 white space days)

Y4 Edited	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Place value: Numbers to 10 000	Further multiplication and division	Measurement: Money
Week 2	Place value: Numbers to 10 000	Further multiplication and division	Measurement: Money
Week 3	Place value: Numbers to 10 000	Further multiplication and division	Measure: Mass, Volume and Length
Week 4	Addition and subtraction: 10 000	Statistics – Graphs	Measure: Mass, Volume and Length
Week 5	Addition and subtraction: 10 000	Fractions	Measure: Mass, Volume and Length
Week 6	Addition and subtraction: 10 000	Fractions	Measure: Mass, Volume and Length
Week 7	Addition and subtraction: 10 000	Fractions	Measurement: Area of figures
Week 8	Multiplication and division	Measurement – Time	Geometry: Properties of Shapes
Week 9	Multiplication and division	Decimals	Geometry: Properties of Shapes
Week 10	Multiplication and division	Decimals	Geometry: Position and Movement
Week 11	Multiplication and division	Spring Term Assessment Week	Place value: Roman numerals

Week 12	Further multiplication and division	Decimals	Review and revisit	
Year 5 (55 white space days)				
Y5 Edited	AUTUMN TERM	SPRING TERM	SUMMER TERM	
Week 1	Place value: Numbers to 1 000 000	Fractions, Decimals and Percentages	Geometry: Position and Movement	
Week 2	Place value: Numbers to 1 000 000	Fractions, Decimals and Percentages	Measurement - Measurements	
Week 3	Place value: Numbers to 1 000 000	Fractions, Decimals and Percentages	Measurement - Measurements	
Week 4	Addition and subtraction	Fractions, Decimals and Percentages	Measurement - Measurements	
Week 5	Addition and subtraction	Fractions, Decimals and Percentages	Measurement – Area and Perimeter	
Week 6	Multiplication and division	Fractions, Decimals and Percentages	Measurement – Area and Perimeter	
Week 7	Multiplication and division	Fractions, Decimals and Percentages	Measurement – Area and Perimeter	
Week 8	Multiplication and division	Fractions, Decimals and Percentages	Measurement – Volume	
Week 9	Multiplication and division	Geometry: Properties of Shapes	Measurement – Volume	
Week 10	Word problems	Geometry: Properties of Shapes	Place value – Roman numerals	

Week 11	Statistics: Graphs	Spring Term Assessment Week	Review and revisit
Week 12	Statistics: Graphs	Geometry: Properties of Shapes	Review and revisit

Year 6 (54 white space days)

Y6 Edited for SATs	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Numbers & Place Value to 10 Million	FDP: Percentages	Statistics: graphs and averages
Week 2	Calculations 4 operations. Whole numbers	Word problems	Revision
Week 3	Calculations 4 operations. Whole numbers	Ratio & Proportion: Ratio	Revision
Week 4	Calculations 4 operations. Whole numbers	Ratio & Proportion: Ratio	SATS
Week 5	Calculations 4 operations. Whole numbers	Algebra: Algebra	Geometry – properties of shapes
Week 6	FDP: Fractions	Algebra: Algebra	Geometry – Position and direction

Week 7	FDP: Fractions	Measurement: Area & Perimeter	Number & place value : negative numbers
Week 8	Autumn Term Test Week	Measurement: Area & Perimeter	Statistics – graphs and averages
Week 9	FDP: Decimals	Geometry – properties of shape, angles	Statistics – graphs and averages
Week 10	FDP: Decimals	Geometry – Position and movement	Revisit topics
Week 11	Measurements	Spring Term Assessment Week	Revisit topics
Week 12	Measurements	Measurement – volume	Revisit topics

Medium Term Plans

Year 1

Year 1 Maths Guidance 2020-2021:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/897799/Maths_guidance_y ear_1.pdf

Find previous year experience and future applications for ready-to-progress criteria on p9-10 of document above. Year 1 Guidance video: <u>https://youtu.be/GZQC0duYGKk?list=PL6gGtLyXoeq-FMWk00AlcIPo3fhGmi03D</u> PD materials: <u>https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/</u>

	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	Place value: Numbers to 10 Lesson 1 - Counting to 10	<u>1NPV–1</u> Count within 100, forwards and backwards, starting with any number. (p11-13)	1.1 Comparison of quantities and measures
	<u>Lesson 2 - Counting Objects to 10</u>	1AS–1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. (p23-28)	https://www.ncetm.org.uk/classroom- resources/primm-1-01-comparison-of- guantities-and-measures/
	<u>Lesson 3 - Writing to 10</u> <u>Lesson 4 - Counting To Zero</u>		1.3 Composition of numbers: 0 – 5
	<u>Lesson 5 - Comparing Numbers of Objects</u> <u>Lesson 6 - Ordering Numbers</u>		resources/primm-1-03-composition-of- numbers-0-5/
Week 2	<u>Lesson 7 - Comparing Numbers</u> <u>Lesson 8 - Chapter Consolidation</u>		1.4 Composition of numbers: 6 – 10 https://www.ncetm.org.uk/classroom- resources/primm-1-04-composition-of-
	+ supplementary		<u>numbers-6-10/</u>

<u>Autumn Term</u>



Week	Addition and subtraction	1NF-1 Develop fluency in addition and subtraction	1.2 Introducing 'whole' and 'parts': Part-
3	<u>Lesson 1 – Making Number Bonds</u>	facts within 10. (p17-19 and p39-40)	https://www.ncetm.org.uk/classroom-
Week 4	<u>Lesson 2 – Making Number Stories</u>		resources/primm-1-02-introducing-
	Lesson 3 - Chapter Consolidation		whole-ana-parts-part-part-whole/
	<u>Lesson 1 – Add By Using Number Bonds</u>		1.7 Addition and subtraction: strategies within 10
	Lesson 2 – Add by Counting On		https://www.ncetm.org.uk/classroom-
	Lesson 3 - Completing Number Sentences	1AS-2 Read, write and interpret equations	resources/primm-1-07-addition-and- subtraction-strategies-within-10/
	Lesson 4 - Makina Addition Stories	containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and	
	Lesson 5 - Solving Risture Problems	equations to real-life contexts. (p29-35)	
	Lesson 5 - Solving Ficture Froblems		1.5 Additive structures: introduction to
	Lesson 6 - Chapter Consolidation		aggregation and partitioning
Week			https://www.ncetm.org.uk/classroom_ resources/primm-1-05-additive-
5	<u>Lesson 1 - Subtract by Crossing Out</u>		structures-introduction-to-aggregation-
	<u>Lesson 2 – Subtract by Using Number Bonds</u>		<u>and-partitioning/</u>
	<u>Lesson 3 - Subtract by Counting Back</u>		1.6 Additive structures: introduction to
Week	Lesson 4 – Making Subtraction Stories		https://www.ncetm.org.uk/classroom-
6	Lesson 5 - Solving Picture Problems		resources/primm-1-06-additive-
Week			augmentation-and-reduction/
7	<u>Lesson 6 - Addition and Subtraction</u>		
	<u>Lesson 7 - Chapter Consolidation</u>		
	+ supplementary		

Week 8 Week 9?	Geometry: Position and Direction Lesson 1 - Naming Positions Lesson 2 - Naming Positions in Queues Lesson 3 - Naming Left and Right Positions Lesson 4 - Chapter Consolidation + supplementary		
Week 10 Week 11	Place value: Numbers to 20 Lesson 1 - Counting to 20 Lesson 2 - Writing to 20 Lesson 3 - Comparing Numbers Lesson 4 - Ordering Numbers Lesson 5 - Number Patterns Lesson 6 - Chapter Consolidation + supplementary	1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =. (p13-16)	 1.1 Comparison of quantities and measures https://www.ncetm.org.uk/classroom-resources/primm-1-01-comparison-of-quantities-and-measures/ 1.3 Composition of numbers: 0 – 5 https://www.ncetm.org.uk/classroom-resources/primm-1-03-composition-of-numbers-0-5/ 1.4 Composition of numbers: 6 – 10 https://www.ncetm.org.uk/classroom-resources/primm-1-04-composition-of-numbers-6-10/ 1.10 Composition of numbers: 11 – 19 https://www.ncetm.org.uk/classroom-resources/primm-1-10-composition-of-numbers-11-19/

Week	Addition and subtraction within 20
12	Lesson 1 – Add by Counting On
	<u>Lesson 2 – Add by Making 10</u>
	Lesson 3 – Add by Adding Ones
	<u>Lesson 4 – Counting Back</u>
	+ supplementary

<u>Spring Term</u>

	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week	Addition and subtraction within 20		
1	Lesson 5 - Subtract by Subtracting Ones		
	Lesson 6 – Subtract from 10		
	Lesson 7 - Addition and Subtraction Facts		
	Lesson 8 – Chapter Consolidation		
	+ supplementary		

Week 2 Week 3	Geometry: Properties of Shape Lesson 1 - Recognising Solids Lesson 2 - Recognising Shapes Lesson 3 - Grouping Shapes Lesson 4 - Making Patterns Lesson 5 - Chapter Consolidation + supplementary	1G–1 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another. (p35-37) 1G–2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. (p37-39)	n/a
Week 4	Measurement: Length and Height Lesson 1 - Comparing Height and Length Lesson 2 - Measuring Length Using Things Lesson 3 - Measuring Height and Length Using Body Parts Lesson 4 - Measuring Height and Length Using a Ruler Lesson 5 - Chapter Consolidation + supplementary		
Week 5	Review and Remediation		
Week 6	Review and Remediation		

Week	Place value – Numbers to 40
7	Lesson 1 - Counting to 40
Week 8	Lesson 2 - Writing Numbers to 40
	Lesson 3 – Counting in Tens and Ones
	Lesson 4 - Comparing Numbers
	<u>Lesson 5 - Finding How Much More</u>
	<u>Lesson 6 – Making Number Patterns</u>
	Lesson 7 - Chapter Consolidation
	+ supplementary
Week	Addition and subtraction
9	Lesson 1 – Solving Word Problems
Week	Lesson 2 – Solving Word Problems
10	Lesson 3 - Solving Word Problems
	Lesson 4 - Solving Word Problems
	Lesson 5 - Solving Word Problems
	Lesson 6 - Solving Word Problems
	Lesson 7 - Chapter Consolidation
	+ supplementary
Week 11	Spring Term Assessment Week

Week 12	Multiplication Lesson 1 - Making Equal Groups Lesson 2 - Adding Equal Groups Lesson 3 - Making Equal Rows	1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers. (p19-23 and p40)	2.1 Counting, unitising and coins https://www.ncetm.org.uk/classroom- resources/primm-2-01-counting- unitising-and-coins/
	Lesson 6 - Chapter Consolidation		
	+ supplementary		1.8 Composition of numbers: Multiples of 10 up to 100 https://www.ncetm.org.uk/classroom- resources/primm-1-08-composition- of-numbers-multiples-of-10-up-to- 100/

<u>Summer Term</u>

	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week	Multiplication	As above	As above
1	<u>Lesson 4 – Making Doubles</u>		
	Lesson 5 - Solving Word Problems		
	+ supplementary		

Week 2	Division Lesson 1 - Grouping Equally Lesson 2 - Sharing Equally Lesson 3 - Chapter Consolidation + supplementary		
Week 3	Fractions Lesson 1 - Making Halves Lesson 2 - Making Quarters Lesson 3 - Sharing and Grouping Lesson 4 - Chapter Consolidation + supplementary		3.0 Guidance on teaching fractions in KS1 <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-3-0-guidance-on-</u> <u>the-teaching-of-fractions-in-key-</u> <u>stage-1/</u>
Week 4 Week 5?	Place value: Numbers to 100 Lesson 1 - Counting to 100 Lesson 2 - Finding Tens and Ones Lesson 3 - Comparing Numbers Lesson 4 - Making Number Patterns Lesson 5 - Chapter Consolidation + supplementary	1NPV-1 Count within 100, forwards and backwards, starting with any number.	1.1 Comparison of quantities and measures <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-1-01-comparison-</u> <u>of-quantities-and-measures/</u> 1.9 Composition of numbers: 20–100 <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-1-09-composition-</u> <u>of-numbers-20-100/</u>
Week 5	Measurement: Time Lesson 1 - Telling Time to the Hour		

Week	<u>Lesson 2 - Telling Time to the Half Hour</u>	
6	Lesson 3 – Using Next, Before and After	
	Lesson 4 - Estimating Duration of Time	
	<u>Lesson 5 - Comparing Time</u>	
	<u>Lesson 6 – Using a Calendar</u>	
	<u>Lesson 7 - Chapter Consolidation</u>	
	+ supplementary	
Week	Measurement: Money	
7	<u>Lesson 1 – Recognising Coins</u>	
	Lesson 2 - Recognising Notes	
	Lesson 3 - Chapter Consolidation	
	+ supplementary	
Week	Measurement: Volume and capacity	
0	Lesson 1 - Comparing Volume and Capacity	
	<u>Lesson 2 – Finding Volume and Capacity</u>	
	Lesson 3 - Describing Volume Using Half and a	
	Quarter	
	Lesson 4. Chapter Consolidation	
	Lesson 4 - Chapter Consoligation	
	+ supplementary	

Week	Measurement: Mass
9	Lasson 1 - Comparing Mass
	Lesson I - Comparing Mass
	<u>Lesson 2 – Finding Mass</u>
	Lesson 3 - Chapter Consolidation
	+ supplementary
Week	Geometry: Position and Direction
10	Lesson 1 – Describing Positions
	Lesson 2 – Describing Movements
	Lesson 3 - Makina Turns
	Lesson 4 - Chapter Consolidation
	+ supplementary
Week	Revision and End-of-year tests
11	
Week	Review and Remediation
12	

Year 2

Year 2 Maths Guidance 2020-2021:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/897800/Maths_guidance_y ear_2.pdf

(See progression on p9-11)

Year 2 Guidance video: <u>https://youtu.be/Cd4CuwgtfGQ?list=PL6gGtLyXoeq-FMWk00AlcIPo3fhGmi03D</u> PD materials: <u>https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-</u> <u>development/</u>

NPV–1 Recognise the place value of each digit	1.8 Composition of numbers: multiples of 10 up
n two-digit numbers, and compose and ecompose two-digit numbers using standard nd non-standard partitioning. (p12-13)	to 100 <u>https://www.ncetm.org.uk/classroom-</u> resources/primm-1-08-composition-of- numbers-multiples-of-10-up-to-100/
	1.9 Composition of numbers: 20–100
NPV-2 Reason about the location of any two-	https://www.ncetm.org.uk/classroom- resources/primm-1-09-composition-of- numbers-20-100/
ncluding identifying the previous and next	1.10 Composition of numbers: 11-19
nultiple of 10. (p14-16)	https://www.ncetm.org.uk/classroom- resources/primm-1-10-composition-of-
	<u>numbers-11-19/</u>
N e n ig n ig	 PV-1 Recognise the place value of each digit two-digit numbers, and compose and compose two-digit numbers using standard d non-standard partitioning. (p12-13) PV-2 Reason about the location of any two-it number in the linear number system, cluding identifying the previous and next altiple of 10. (p14-16)

<u>Autumn Term</u>



Week	Addition and subtraction	2NF–1 Secure fluency in addition and	1.7 Addition and Subtraction: strategies within
4 Week 5	Lesson 1 - Simple Adding Lesson 2 - Simple Adding	subtraction facts within 10, through continued practice. (p16-17)	10 https://www.ncetm.org.uk/classroom- resources/primm-1-07-addition-and-
Week 6	Lesson 3 - Simple Adding Lesson 4 - Simple Adding	<u>2AS-1</u> Add and subtract across 10, for example: $8 \pm 5 = 13$	subtraction-strategies-within-10/
Week 7 Week	Lesson 5 - Adding with Renaming Lesson 6 - Adding with Renaming	$13-5=8_{(p18-20)}$	1.11 Addition and subtraction: bridging 10 https://www.ncetm.org.uk/classroom- resources/primm-1-11-addition-and- subtraction-bridging-10/
8		2AS–2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". (p20-22)	1.12 Subtraction as difference https://www.ncetm.org.uk/classroom- resources/primm-1-12-subtraction-as-
	Lesson 10 - Simple Subtracting Lesson 11 - Subtracting with Renaming	2AS–3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens	difference/
	Lesson 12 - Subtracting with Renaming Lesson 13 - Addition of Three Numbers	to/from a two-digit number. (p23-26)	single-digit numbers https://www.ncetm.org.uk/classroom- resources/primm-1-13-addition-and- subtraction-two-digit-and-single-digit-
	+ supplementary lessons	2AS–4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers. (p27-29)	1.14 Addition and subtraction: two-digit numbers and multiples of ten https://www.ncetm.org.uk/classroom- <u>resources/primm-1-14-addition-and-</u> subtraction-two-digit-numbers-and-multiples- <u>of-ten/</u>

			1.15 Addition: two-digit and two-digit numbers https://www.ncetm.org.uk/classroom- resources/primm-1-15-addition-two-digit-and- two-digit-numbers/ 1.16 Subtraction: two-digit and two-digit numbers https://www.ncetm.org.uk/classroom- resources/primm-1-16-subtraction-two-digit- and-two-digit-numbers/
Week 9	Consolidation week		
Week 10 Week 11 Week 12	Multiplication of 2, 5 and 10 * Lesson 1 - Multiplication as Equal Groups H Lesson 2 - 2 Times Table H Lesson 3 - 2 Times Table H Lesson 3 - 2 Times Table H Lesson 5 - 5 Times Table H Lesson 6 - 10 Times Table H Lesson 7 - 10 Times Table H Lesson 7 - 10 Times Table H Lesson 9 - Multiplying by 2, 5 and 10 I Lesson 10 - Solving Word Problems Lesson 11 - Chapter Consolidation	2MD-1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. (p30-32)	 2.2 Structures: multiplication representing equal groups https://www.ncetm.org.uk/classroom- resources/primm-2-02-structures- multiplication-representing-equal-groups/ 2.3 Times tables: groups of 2 and commutativity (part 1) https://www.ncetm.org.uk/classroom- resources/primm-2-03-times-tables-groups-of- 2-and-commutativity-part-1/ 2.4 Times tables: groups of 10 and of 5, and factors of 0 and 1 https://www.ncetm.org.uk/classroom- resources/primm-2-04-times-tables-groups-of-

		2.5 d halv <u>resc</u> dou	Commutativity (part 2), doubling and ving <u>https://www.ncetm.org.uk/classroom-</u> purces/primm-2-05-commutativity-part-2- bling-and-halving/
		<u>Spring Term</u>	
	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1 Week 2	Multiplication and division of 2, 5 and 10 Lesson 1 - Grouping Lesson 2 - Sharing Lesson 3 - Dividing by 2 Lesson 4 - Dividing by 5 Lesson 5 - Dividing by 10 Lesson 6 - Multiplication and Division Lesson 7 - Solving Word Problems Lesson 9 - Chapter Consolidation + supplementary lessons	2MD–2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division). (p33-34)	2.6 Structures: quotitive and partitive division https://www.ncetm.org.uk/classroom_ <u>resources/primm-2-06-structures-</u> <u>quotitive-and-partitive-division/</u>

Week	Measurement: Length	
3	H Lesson 1 - Measuring Length in Metres	
Week	H Lesson 2 - Measuring Length in Centimetres	
4	Lesson 3 - Comparing Length in Metres	
	+ Lesson 4 - Comparing Length in Centimetres	
	 Lesson 5 - Comparing the Length of Lines 	
	Lesson 6 - Solving Word Problems	
	Lesson 7 - Solving Word Problems	
	Lesson 8 - Solving Word Problems	
	Lesson 9 - Chapter Consolidation	
Maab	Fractions	
Week 5	Fractions	
Week 5	Fractions Lesson 1 - Making Equal Parts 	
Week 5 Week 6	Fractions Lesson 1 - Making Equal Parts Lesson 2 - Showing Half and Quarter	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds * Lesson 5 - Naming Fractions	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds * Lesson 5 - Naming Fractions * Lesson 6 - Making Equal Fractions	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds * Lesson 5 - Naming Fractions * Lesson 6 - Making Equal Fractions • Lesson 7 - Comparing and Ordering Fractions	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds * Lesson 5 - Naming Fractions * Lesson 6 - Making Equal Fractions • Lesson 7 - Comparing and Ordering Fractions • Lesson 8 - Comparing and Ordering Fractions	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds * Lesson 5 - Naming Fractions * Lesson 6 - Making Equal Fractions • Lesson 7 - Comparing and Ordering Fractions • Lesson 8 - Comparing and Ordering Fractions	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds * Lesson 5 - Naming Fractions * Lesson 6 - Making Equal Fractions • Lesson 7 - Comparing and Ordering Fractions • Lesson 8 - Comparing and Ordering Fractions * Lesson 9 - Counting Wholes and Parts	
Week 5 Week 6	Fractions * Lesson 1 - Making Equal Parts * Lesson 2 - Showing Half and Quarter * Lesson 3 - Showing Quarters * Lesson 4 - Showing Thirds * Lesson 5 - Naming Fractions * Lesson 6 - Making Equal Fractions • Lesson 7 - Comparing and Ordering Fractions • Lesson 9 - Counting Wholes and Parts • Lesson 10 - Counting in Halves	

Maak	Freetions	
weer 7	Fractions	
	Lesson 11 - Counting in Quarters	
	 <u>Lesson 12 - Counting in Thirds</u> 	
	★ Lesson 13 - Finding Part of a Set	
	H Lesson 14 - Finding Part of a Set	
	H Lesson 15 - Finding Part of a Set	
	 Lesson 16 - Finding Part of a Quantity 	
	Lesson 17 - Chapter Consolidation	
Week	Measurement: Money	
0	Lesson 1 - Writing Amounts of Money	
Week	Lesson 2 - Counting Money	
9	Lesson 3 - Counting Money	
	Lesson 4 - Counting Money	
	★ Lesson 5 - Showing Equal Amounts of Money	
	★ Lesson 6 - Exchanging Money	
	Lesson 7 - Comparing Amounts of Money	
	Lesson 8 - Calculating Total Amount	
	Lesson 9 - Calculating Change	
	Lesson 11 - Chanter Consolidation	
Week	Statistics: Picture Graphs	
10		

	 Lesson 1 - Reading Picture Graphs Lesson 2 - Reading Picture Graphs Lesson 3 - Reading Picture Graphs Lesson 4 - Reading Picture Graphs Lesson 5 - Reading Picture Graphs Lesson 6 - Chapter Consolidation 	
Week 11	Spring Term Assessment Week	
Week 12	Measurement: Temperature	

	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week	Measurement: Time		
1 Week 2	 Lesson 1 - Telling and Writing Time to 5 Minutes Lesson 2 - Telling and Writing Time Lesson 3 - Sequencing Events Lesson 4 - Drawing Clock Hands Lesson 5 - Finding Durations of Time Lesson 6 - Finding Durations of Time Lesson 7 - Finding Ending Times Lesson 8 - Finding Starting Times Lesson 10 - Finding Starting Times Lesson 11 - Comparing Time Lesson 12 - Chapter Consolidation 		
Week 3	Consolidation week		
Week 4 Week 5	Geometry: 2D Shapes	2 <u>G–1</u> Describe and compare 2D and 3D shapes. Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties. (p35-38)	n/a

	H Lesson 1 - Identifving Sides	
	H Lesson 2 - Identifying Vertices	
	Lesson 3 - Identifying Lines of Symmetry	
	Lesson 4 - Making Figures	
	Lesson 5 - Sorting Shapes	
	Lesson 6 - Drawing Shapes	
	Lesson 7 Making Patterns	
	Lesson 9. Describing Patterns	
	Lesson 0 Maxing Shares	
	Lesson 9 - Moving Shapes	
	Lesson 10 - Turning Shapes	
	Lesson 11 - Chapter Consolidation	
	SATS week	
Week	Geometry: 2D/3D Shapes	
6	H Lesson 1 - Recognising Three-Dimensional St	<u>hapes</u>
	H Lesson 2 - Describing Three-Dimensional Sha	apes
	Lesson 3 - Describing Three-Dimensional Sha	apes
	Lesson 4 - Grouping Three-Dimensional Shap	<u>bes</u>
	Lesson 5 - Forming Three-Dimensional Struct	tures
	Lesson 6 - Making Patterns	
	Lesson 7 - Chapter Consolidation	

Neek	Measurement: Mass
7	Lesson 1 - Measuring Mass in Kilograms
Week 8	Lesson 2 - Measuring Mass in Grams
	Lesson 3 - Measuring Mass in Grams
	Lesson 4 - Comparing Masses of Two Objects
	Lesson 5 - Comparing the Mass of Three Objects
	Lesson 6 - Solving Word Problems
	Lesson 7 - Solving More Word Problems
	Lesson 8 - Chapter Consolidation
Week	Measurement: Volume
9	Lesson 1 - Comparing Volume
Week	Lesson 2 - Comparing Volume
10	Lesson 3 - Measuring Volume in Litres
	Lesson 4 - Measuring Volume in Millilitres
	Lesson 5 - Solving Word Problems
	Lesson 6 - Solving Word Problems
	Lesson 7 - Solving Word Problems
	Lesson 8 - Chapter Consolidation
Week	Review and revisit
11/12	Keview and revisit

<u>Year 3</u>

Year 3 Maths Guidance 2020-2021:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/897801/Maths_guidance_y ear_3.pdf

(p9-12 shows progression)

Year 3 Guidance video: <u>https://youtu.be/9rlue2OaupU?list=PL6gGtLyXoeq-FMWk00AlcIPo3fhGmi03D</u> PD materials: <u>https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-</u> <u>development/</u>

<u>Autumn Term</u>

	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1 Week 2	Place value: Numbers to 1000 Lesson 1 - Counting in Hundreds Lesson 2 - Counting in Hundreds. Tens and Ones Lesson 3 - Place Value Lesson 4 - Comparing and Ordering Numbers Lesson 5 - Counting in Fifties Lesson 6 - Number Patterns Lesson 7 - Number Patterns Lesson 8 - Counting in Fours and Eights Lesson 9 - Chapter Consolidation 	 <u>3NPV-1</u> Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10. (p13-15) <u>3NPV-2</u> Recognise the place value of each digit in <i>three</i>-digit numbers, and compose and decompose <i>three</i>-digit numbers using standard and non-standard partitioning. (p15-17) <u>3NPV-3</u> Reason about the location of any <i>three</i>-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10. (p18-21) 	 1.17 Composition and calculation: 100 and bridging 100 https://www.ncetm.org.uk/classroom- resources/primm-1-17-composition-and- calculation-100-and-bridging-100/ 1.18 Composition and calculation: three-digit numbers <u>https://www.ncetm.org.uk/classroom- resources/primm-1-18-composition-and- calculation-three-digit-numbers/</u> 1.18 Composition and calculation: three-digit numbers <u>https://www.ncetm.org.uk/classroom-</u>
			resources/primm-1-18-composition-and- calculation-three-digit-numbers/

Week	Addition and subtraction	3NF–1 Secure fluency in addition and subtraction facts	1.11 Addition and subtraction: bridging 10
3		that bridge 10, through continued practice. (p25-27 and	https://www.ncetm.org.uk/classroom-
1.4 1.	Lesson 1 - Addition and Subtraction Fac	p67-68)	resources/primm-1-11-addition-and-
weer	H Lesson 2 - Simple Adding	2NE-2 Apply place value knowledge to known additive	subtraction-bridging-10/
4	H Lesson 3 - Simple Adding	and multiplicative number facts (scaling facts by 10)	1 17 Composition and calculation: 100 and
Week 5	Lesson 4 - Simple Adding	(p30-32)	bridging 100
_	* Lesson 5 - Simple Adding		https://www.ncetm.org.uk/classroom-
Week 6	H Lesson 6 - Adding with Renaming	<u>3AS-1</u> Calculate complements to 100, for example:	<u>resources/primm-1-17-composition-and-</u> <u>calculation-100-and-bridging-100/</u>
Mach	Lesson 7 - Adding with Renaming	46 + ? = 100 (* 22, 25)	1.17 Composition and calculation: 100 and
VVEER	Lesson 8 - Adding with Renaming	(p33-35)	bridaina 100
	Lesson 9 - Adding with Renaming		https://www.ncetm.org.uk/classroom-
		2AS 2 Add and subtrast up to three digit numbers	resources/primm-1-17-composition-and-
	Lesson 10 - Adding with Renaming	using columnar methods (p36-39)	calculation-100-and-bridging-100/
	Lesson 11 - Simple Subtracting		1.20 Algorithmas column addition
	Lesson 12 - Simple Subtracting		https://www.ncetm.org.uk/classroom-
	H Lesson 13 - Simple Subtracting	3AS-3 Manipulate the additive relationship:	resources/primm-1-20-algorithms-column-
	Lesson 14 Simple Subtracting	Understand the inverse relationship between addition	addition/
	Lesson 14 - Simple Subtracting	and subtraction, and how both relate to the part-	1 21 Algorithms: column subtraction
	Lesson 15 - Simple Subtracting	part-whole structure.	https://dev-ncetm.s1.umbraco.jo/classroom-
	★ Lesson 16 - Subtracting with Renaming	Understand and use the commutative property of	resources/primm-1-21-algorithms-column-
	★ Lesson 17 - Subtracting with Renaming	addition, and understand the related property for	subtraction/
	Losson 18 - Subtracting with Ponoming	subtraction. (p40-43)	
	Lesson 10 - Subdacking with Kenaling		
	 Lesson 19 - Subtracting with Renaming 		1.19 Securing mental strategies: calculation up
	★ Lesson 20 - Using Models		to 999 <u>https://www.ncetm.org.uk/classroom-</u>
	Lesson 21 - Using Models		resources/primm-1-19-securing-mental-
	Elesson 22 - Using Models		<u>strategies-calculation-up-to-999/</u>
	Lesson 23 - Using Models		
	Lesson 24 - Chapter Consolidation		

Week 8 Week 9 Week 10	Multiplication and division	3NF-2 Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. (p27- 29 and p69)	 2.4 Times tables: groups of 10 and of 5, and factors of 0 and 1 https://www.ncetm.org.uk/classroom- resources/primm-2-04-times-tables-groups-of- 10-and-of-5-and-factors-of-0-and-1/ 2.7 Times tables: 2, 4 and 8, and the relationship between them https://www.ncetm.org.uk/classroom- resources/primm-2-07-times-tables-2-4-and- 8-and-the-relationship-between-them/
	 Lesson 8 - Dividing by 3 Lesson 9 - Dividing by 4 Lesson 10 - Multiplying and Dividing Lesson 11 - Dividing by 4 and 8 Lesson 12 - Solving Word Problems Lesson 13 - Solving Word Problems Lesson 14 - Solving Word Problems Lesson 15 - Solving Word Problems Lesson 16 - Chapter Consolidation 	 <u>3NPV-4</u> Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts. (p22-24) <u>3MD-1</u> Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division. (p44-46) 	 1.17 Composition and calculation: 100 and bridging 100 https://www.ncetm.org.uk/classroom- resources/primm-1-17-composition-and- calculation-100-and-bridging-100/ 2.5 Commutativity (part 2), doubling and halving https://www.ncetm.org.uk/classroom- resources/primm-2-05-commutativity-part-2- doubling-and-halving/ 2.6 Structures: quotitive and partitive division https://www.ncetm.org.uk/classroom- resources/primm-2-06-structures-quotitive- and-partitive-division/


<u>Spring Term</u>			
	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	Measurement: Length		
Week 2	 Lesson 1 - Writing Length in Metres and Centimetres Lesson 2 - Writing Length in Centimetres Lesson 3 - Writing Length in Metres Lesson 4 - Writing Length in Kilometres and Metres Lesson 5 - Comparing Length Lesson 6 - Solving Word Problems Lesson 7 - Solving Word Problems Lesson 9 - Solving Word Problems Lesson 9 - Solving Word Problems Lesson 10 - Solving Word Problems Lesson 11 - Chapter Consolidation 		
Week 3	 Measurement: Mass Lesson 1 - Reading Weighing Scales Lesson 2 - Reading Weighing Scales Lesson 3 - Reading Weighing Scales Lesson 4 - Reading Weighing Scales Lesson 5 - Solving Word Problems Lesson 6 - Solving Word Problems Lesson 7 - Solving Word Problems Lesson 8 - Chapter Consolidation 		

Week 4	Measurement: Volume
Week 5	Lesson 1 - Measuring Volume in Millilitres
	* Lesson 2 - Measuring Capacity in Millilitres
	H Lesson 3 - Measuring Volume in Millilitres and Litres
	H Lesson 4 - Measuring Capacity in Millilitres and Litres
	H Lesson 5 - Writing Volume in Litres and Millilitres
	H Lesson 6 - Writing Capacity in Litres and Millilitres
	Lesson 7 - Solving Word Problems
	Lesson 8 - Solving Word Problems
	Lesson 9 - Solving Word Problems
	Lesson 10 - Solving Word Problems
	Lesson 11 - Chapter Consolidation
Week 6	Measurement: Money
	H Lesson 1 - Naming Amounts of Money
	H Lesson 2 - Naming Amounts of Money
	★ Lesson 3 - Showing Amounts of Money
	Lesson 4 - Adding Money
	H Lesson 5 - Adding Money
Week 7	Measurement: Money
Week 8	



Week 9	Measurement: Time
Week 10	- Lesson 1 - Telling the Time
Week 11	* Lesson 2 - Telling the Time
	Lesson 3 - Telling the Time
ASSESSMENT	H Lesson 4 - Telling the Time
	Lesson 5 - Telling the Time
Week 12	★ Lesson 6 - Telling the Time
	★ Lesson 7 - Telling the Time
	Lesson 8 - Measuring and Comparing Time in Seconds
	J. Lesson 9 - Measuring Time in Seconds
	Lesson 10 - Measuring Time in Seconds
	Lesson 11 - Measuring Time in Hours
	Lesson 12 - Measuring Time in Hours
	Lesson 13 - Measuring Time in Hours
	* Lesson 14 - Measuring Time in Minutes
	Lesson 15 - Measuring Time in Minutes
	Lesson 16 - Measuring Time in Minutes
	 Lesson 17 - Changing Minutes to Seconds
	Lesson 18 - Changing Seconds to Minutes
	* Lesson 19 - Finding Number of Days
	Lesson 20 - Finding Number of Days
	Lesson 21 - Chapter Consolidation

Week	Spring Term Assessment Week	
11		

<u>Summer Term</u>

	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	Statistics Image: Statistics		
Week 2 Week 3 Week 5 Week 6	Fractions	3F-1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. (p47-50)	 3.1 Preparing for fractions: the part– whole relationship https://www.ncetm.org.uk/classroom- resources/primm-3-01-preparing-for- fractions-the-part-whole-relationship/ 3.2 Unit fractions: identifying, representing and comparing https://www.ncetm.org.uk/classroom- resources/primm-3-02-unit-fractions- identifying-representing-and- comparing/ 3.3 Non-unit fractions: identifying, representing and comparing https://www.ncetm.org.uk/classroom- resources/primm-3-03-non-unit- fractions-identifying-representing-and- comparing/

*	Lesson 1 - Counting in Tenths	1	<u>3F–2</u> Find unit fractions of quantities using known division	
*	Lesson 2 - Making Number Pairs	Ţ	facts (multiplication tables fluency). (p51-53)	3.2 Unit fractions: identifying,
н	Lesson 3 - Adding Fractions			representing and comparing
	Lesson 4 - Adding Fractions			https://www.ncetm.org.uk/classroom-
	LCSSOIL 4 S Adding Fractions			identifying-representing-and-
*	Lesson 5 - Subtracting Fractions			comparing/
*	Lesson 6 - Finding Equivalent Fractions			3.6 Multiplying whole numbers and
*	Lesson 7 - Finding Equivalent Fractions			fractions
*	Lesson 8 - Finding Equivalent Fractions			https://www.ncetm.org.uk/classroom-
*	Lesson 9 - Finding Equivalent Fractions			resources/primm-3-06-multiplying-
*	Lesson 10 - Finding Equivalent Fractions	10	3F-3 Reason about the location of any fraction within 1 in	whole-numbers-and-fractions/
	Losson 11 - Finding Equivalent Fractions	ť	the linear number system. (p54-57)	
A	Lesson 11 - Finding Equivalent Fractions			3.2 Unit fractions: identifying
*	Lesson 12 - Finding the Simplest Fraction			representing and comparing
*	Lesson 13 - Finding the Simplest Fraction			https://www.ncetm.org.uk/classroom-
*	Lesson 14 - Finding Equivalent Fractions			resources/primm-3-02-unit-fractions-
*	Lesson 15 - Comparing Fractions			comparing/
*	Lesson 16 - Comparing Fractions			3 3 Non-unit fractions: identifying
				representing and comparing
X	Lesson 17 - Comparing Fractions			https://www.ncetm.org.uk/classroom-
X	Lesson 18 - Adding Fractions	1.1	3F–4 Add and subtract fractions with the same	resources/primm-3-03-non-unit-
X	Lesson 19 - Subtracting Fractions	Ċ	denominator, within 1. (p58-60)	fractions-identifying-representing-and-
*	Lesson 20 - Subtracting Fractions			<u>comparing</u>
*	Lesson 21 - Finding Part of a Set			
*	Lesson 22 - Finding Part of a Set			3.4 Adding and subtracting within one
				whole
				<u>https://www.ncetm.org.uk/classroom-</u>
		/ L .		

	 Lesson 23 - Finding the Fraction of a Number Lesson 24 - Sharing One Lesson 25 - Sharing More Than 1 Lesson 26 - Sharing More Than 1 Lesson 27 - Sharing More Than 1 Lesson 28 - Solving Word Problems Lesson 29 - Solving Word Problems Lesson 30 - Solving Word Problems Lesson 31 - Chapter Consolidation 		resources/primm-3-04-adding-and- subtracting-within-one-whole/
Week 7	Geometry – angles Lesson 1 - Making Angles Lesson 2 - Making Angles Lesson 3 - Finding Angles in Shapes Lesson 4 - Finding Right Angles Lesson 5 - Comparing Angles 	<u>3G–1</u> Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations. (p61-64)	n/a
Week 8	Geometry – angles, lines H Lesson 6 - Comparing Angles Lesson 7 - Making Turns Lesson 8 - Chapter Consolidation Lesson 1 - Identifying Perpendicular Lines Lesson 2 - Identifying Parallel Lines Lesson 3 - Finding Vertical and Horizontal Lines		

Week	Geometry – shapes	<u>3G–2</u> Draw polygons by joining marked points, and identify	n/a
9	Lesson 4 - Describing Two-Dimensional Shapes	parallel and perpendicular sides. (p64-67)	
	Lesson 5 - Drawing Two-Dimensional Shapes		
	H Lesson 6 - Making Three-Dimensional Shapes		
	H Lesson 7 - Making Three-Dimensional Shapes		
	H Lesson 8 - Describing Three-Dimensional Shapes		
	Lesson 9 - Chapter Consolidation		
Week	Measurement: perimeter of		
10	figures		
Week	★ Lesson 1 - Measuring Total Length Around a Shape		
11	★ Lesson 2 - Measuring Perimeter		
	★ Lesson 3 - Measuring Perimeter		
	★ Lesson 4 - Measuring Perimeter		
	★ Lesson 5 - Measuring Perimeter		
	Lesson 6 - Calculating Perimeter		
	Lesson 7 - Calculating Perimeter		
	Lesson 8 - Calculating Perimeter		
	Lesson 9 - Calculating Perimeter		
	Lesson 10 - Calculating Perimeter		
	Lesson 11 - Chapter Consolidation		
Week	Review and revisit		
12			

<u>Year 4</u>

Year 4 Maths Guidance 2020-2021:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/897803/Maths_guidance_y ear_4.pdf

(See progression on p9-11)

Year 4 Guidance video: <u>https://youtu.be/s_7S9U82RcM?list=PL6gGtLyXoeq-FMWk00AlcIPo3fhGmi03D</u> PD materials: <u>https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/</u>

<u>Autumn Term</u>

	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1 Week 3	 Place value: Numbers to 10 000 Lesson 1 - Counting in Hundreds and Twenty-Fives Lesson 2 - Counting in Thousands Lesson 3 - Counting in Thousands, Hundreds, Tens and Ones Lesson 4 - Using Place Value Lesson 5 - Using Place Value Lesson 5 - Comparing and Ordering Numbers Lesson 6 - Comparing and Ordering Numbers Lesson 7 - Comparing and Ordering Numbers Lesson 8 - Making Number Patterns Lesson 9 - Making Number Patterns Lesson 10 - Counting in Sixes, Sevens and Nines Lesson 11 - Rounding Numbers Lesson 12 - Rounding Numbers to Estimate Lesson 14 - Rounding Numbers to Estimate Lesson 15 - Chapter Consolidation 	 4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100. (p12-14) 4NPV-2 Recognise the place value of each digit in <i>four</i>-digit numbers, and compose and decompose <i>four</i>-digit numbers using standard and non-standard partitioning. (p15-16) 4NPV-3 Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each. (p16-21) 	1.22 Χομποσιτιον ανδ χαλχυλατιον: 1,000 ανδ φο υρ-διγιτ νυμβερσ <u>ηττπσ://@@@.vyεtμ.opy.uk/yλa</u> <u>σσροομ-ρεσουρχεσ/πριμμ-1-22-γομποσιτιον-</u> <u>ανδ-γαλχυλατιον-1-000-ανδ-φουρ-διγιτ-</u> <u>νυμβερσ/</u> 1.22 Χομποσιτιον ανδ χαλχυλατιον: 1,000 ανδ φο υρ-διγιτ νυμβερσ <u>ηττπσ://@@@.vyεtμ.opy.uk/yλa</u> <u>σσροομ-ρεσουρχεσ/πριμμ-1-22-γομποσιτιον-</u> <u>ανδ-γαλχυλατιον-1-000-ανδ-φουρ-διγιτ-</u> <u>νυμβερσ/</u> 1.22 Χομποσιτιον ανδ χαλχυλατιον: 1,000 ανδ φο υρ-διγιτ νυμβερσ <u>ηττπσ://@@@.vyεtμ.opy.uk/yλa</u> <u>σσροομ-ρεσουρχεσ/πριμμ-1-22-γομποσιτιον-</u> <u>ανδ-γαλχυλατιον-1-000-ανδ-φουρ-διγιτ-</u> <u>νυμβερσ/</u> 1.23 Χομποσιτιον ανδ χαλχυλατιον: τεντησ <u>ηττπ</u> <u>σ://@@@.vyεtμ.opy.uk/yλaσσροομ-</u> <u>ρεσουρχεσ/πριμμ-1-23-χομποσιτιον-ανδ-</u> <u>γαλχυλατιον-τεντησ/</u>

Week 4	Addition and subtraction:
Week	10 000
5	Lesson 1 - Finding Sums
Week	Lesson 3 - Adding with Renaming
6	Lesson 4 - Adding with Renaming
Week 7	* Lesson 5 - Adding with Renaming
,	★ Lesson 6 - Adding Using Mental Strategies
	★ Lesson 7 - Adding Using Mental Strategies
	Lesson 8 - Finding Differences
	Lesson 9 - Subtracting without Renaming
	★ Lesson 10 - Subtracting with Renaming
	Lesson 11 - Subtracting with Renaming
	Lesson 12 - Subtracting with Renaming
	Lesson 13 - Subtracting with Renaming
	Lesson 14 - Subtracting Using Mental Strategies
	Lesson 16 - Solving Word Problems
	Lesson 17 - Solving Word Problems
	Lesson 18 - Chapter Consolidation

Week	Multiplication and division	4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read	1.22 Composition and calculation:
8		scales/number lines marked in multiples of 1,000 with 2, 4, 5	1,000 and four-digit numbers
	Lesson 1 - Multiplying by 6	and 10 equal parts. (p21-25)	https://www.ncetm.org.uk/classroom-
weer	* Lesson 2 - Multiplying by 7		resources/primm-1-22-composition-
9	Lesson 3 - Multiplying by 9		and-calculation-1-000-and-four-digit-
Week	★ Lesson 4 - Multiplying by 9		numbers/
10	★ Lesson 5 - Multiplying by 11	4NF-1 Recall multiplication and division facts up to	2.8 Times tables: 3.6 and 9 and the
Week	★ Lesson 6 - Multiplying by 11	12×12 , and recognise products in multiplication tables as	relationship between them.
11	* Lesson 7 - Multiplying by 12	multiples of the corresponding number. (p26-29)	https://www.ncetm.org.uk/classroom-
	★ Lesson 8 - Dividing by 6		resources/primm-2-08-times-tables-3-
	★ Lesson 9 - Dividing by 7		<u>6-ana-9-ana-the-relationship-</u>
	Loscon 10 Dividing by 9		
	Lesson 10 - Dividing by 5		2.9 Times tables: 7 and patterns
	 Lesson 11 - Multiplying and Dividing by 11 and 12 		within/across times tables
	★ Lesson 12 - Dividing with Remainder		https://www.ncetm.org.uk/classroom-
	Lesson 13 - Solving Word Problems		<u>resources/primm-2-09-times-tables-7-</u>
	Lesson 14 - Solving Word Problems		and-patterns-within-across-times-
	Lesson 15 - Solving Word Problems		<u>tables/</u>
	Lesson 16 - Solving Word Problems		2.11 Times tables: 11 and 12
	Lesson 17 - Solving Word Problems		https://www.ncetm.org.uk/classroom-
			<u>resources/primm-2-11-times-tables-</u>
	Lesson 18 - Solving Word Problems	(MD 2 Manipulate multiplication and division equations	<u>11-and-12/</u>
	Lesson 19 - Chapter Consolidation	and understand and apply the commutative property of	
		multiplication (p39-43)	
			2.10 Connecting multiplication and
			division, and the distributive law
			https://www.ncetm.org.uk/classroom-
			resources/primm-2-10-connecting-
			multiplication-and-division-and-the-
			aistributive-law/
		<u>4MD-3</u> Understand and apply the distributive property of	
		multiplication. (p44-47)	

			 2.10 Connecting multiplication and division, and the distributive law https://www.ncetm.org.uk/classroom- resources/primm-2-10-connecting- multiplication-and-division-and-the- distributive-law/ 2.17 Structures: use measures and comparison to understand scaling https://www.ncetm.org.uk/classroom- resources/primm-2-17-structures- using-measures-and-comparison-to- understand-scaling/
Week 12	Further multiplication and division	<u>4MD–1</u> Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as	2.13 Calculation: multiplying and dividing by 10 or 100
	Lesson 1 - Multiplying by 0 and 1	(p36-38)	resources/primm-2-13-calculation-
	* Lesson 2 - Dividing by 1		multiplying-and-dividing-by-10-or-
	* Lesson 3 - Multiplying the Same Two Numbers		100/
	★ Lesson 4 - Multiplying Three Numbers		
	H Lesson 5 - Multiplying Multiples of 10		

Spring Term

Y4 Edited	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1 Week 2 Week 3	 Further multiplication and division Lesson 6 - Multiplying 2-Digit Numbers Lesson 7 - Multiplying 2-Digit Numbers Lesson 8 - Multiplying Multiples of 100 Lesson 9 - Multiplying 3-Digit Numbers Lesson 10 - Multiplying 3-Digit Numbers Lesson 11 - Multiplying 3-Digit Numbers Lesson 12 - Dividing 2-Digit Numbers Lesson 13 - Dividing 3-Digit Numbers Lesson 14 - Dividing 2-Digit Numbers Lesson 15 - Dividing 3-Digit Numbers Lesson 16 - Dividing 3-Digit Numbers Lesson 18 - Solving Word Problems Lesson 19 - Chapter Consolidation 	4NF-2 Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, for example: 74 \div 9 = 8 r 2 and interpret remainders appropriately according to the context. (p29-32) 4NF-3 Apply place-value knowledge to known ditive and multiplicative number facts (scaling facts 100), for example: 8 + 6 = 14 and 14 - 6 = 8 so 800 + 600 = 1,400 1,400 - 600 = 800 3 × 4 = 12 and 12 \div 4 = 3 so 300 × 4 = 1,2001,200 \div 4 = 300 (p32-35)	 2.12 Division with remainders https://www.ncetm.org.uk/classroom- resources/primm-2-12-division-with- remainders/ 1.22 Composition and calculation: 1,000 and four-digit numbers https://www.ncetm.org.uk/classroom- resources/primm-1-22-composition- and-calculation-1-000-and-four-digit- numbers/ 2.14 Multiplication: partitioning leading to short multiplication https://www.ncetm.org.uk/classroom- resources/primm-2-14-multiplication- partitioning-leading-to-short- multiplication/

Week 4	Statistics - Graphs Lesson 1 - Drawing and Reading Picture Graphs and Bar Graphs Lesson 2 - Drawing and Reading Line Graphs Lesson 3 - Drawing and Reading Line Graphs Lesson 4 - Drawing and Reading Line Graphs Lesson 5 - Drawing and Reading Line Graphs Lesson 5 - Drawing and Reading Line Graphs Lesson 5 - Drawing and Reading Line Graphs Lesson 6 - Chapter Consolidation 		2.15 Division: partitioning leading to short division https://www.ncetm.org.uk/classroom- resources/primm-2-15-division_ partitioning-leading-to-short-division/
Week 5 Week 6	 Fractions Lesson 1 - Counting in Hundredths Lesson 2 - Writing Mixed Numbers Lesson 3 - Showing Mixed Numbers on a Number Line Lesson 4 - Finding Equivalent Fractions Lesson 5 - Finding Equivalent Fractions Lesson 6 - Simplifying Mixed Numbers Lesson 7 - Simplifying Improper Fractions Lesson 8 - Adding Fractions Lesson 9 - Adding Fractions Lesson 10 - Adding Fractions 	4F–1 Reason about the location of mixed numbers in the linear number system. (p48-50) <u>4F–2</u> Convert mixed numbers to improper fractions and vice versa. (p51-53)	 3.5 Working across one whole: improper fractions and mixed numbers https://www.ncetm.org.uk/classroom-resources/primm-3-05-working-across-one-whole-improper-fractions-and-mixed-numbers/ 3.5 Working across one whole: improper fractions and mixed numbers https://www.ncetm.org.uk/classroom-resources/primm-3-05-working-across-one-whole-improper-fractions-and-mixed-numbers/
		$\frac{4F-3}{5}$ Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers, for example: $\frac{7}{5} + \frac{4}{5} = \frac{11}{5}$	3.5 Working across one whole: improper fractions and mixed numbers <u>https://www.ncetm.org.uk/classroom-</u> resources/primm-3-05-working-across-

		$3\frac{7}{8} - \frac{2}{8} = 3\frac{5}{8}$	<u>one-whole-improper-fractions-and-</u> mixed-numbers/
		$7\frac{2}{5} + \frac{4}{5} = 8\frac{1}{5}$	
		$8\frac{1}{5}-\frac{4}{5}=7\frac{2}{5}$	
		(p54-58)	
Week 7	Fractions		
	* Lesson 11 - Subtracting Fractions		
	Lesson 12 - Subtracting Fractions		
	Lesson 13 - Solving Word Problems		
	Losson 14 - Chanter Consolidation		
	Lesson 14 - Chapter Consolidation		
Week 8	Measurement – Time		
	Lesson 1 - Telling Time on a 24-Hour Clock		
	Lesson 2 - Changing Time in Minutes to Seconds		
	Lesson 3 - Changing Time in Hours to Minutes		
	Lesson 4 - Solving Problems on Duration of Time		
	Lesson 5 - Chandling tears to Months and Weeks to Days		
	Lesson 6 - Solving Word Problems		
	Lesson 2 - Challying Word Problems Lesson 7 - Chapter Consolidation		
	Lesson 7 - Chapter Consolidation		
Week 9	Lesson 5 - Solving Word Problems Lesson 7 - Chapter Consolidation		
Week 9 Week 10	Lesson 2 - Chapter Consolidation Decimals		
Week 9 Week 10 Week 11	Lesson 5 - Solving Word Problems Lesson 7 - Chapter Consolidation		



<u>Summer Term</u>

	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1 Week 2	Measurement: Money * Lesson 1 - Writing Amounts of Money. * Lesson 2 - Writing Amounts of Money. * Lesson 3 - Comparing Amounts of Money. * Lesson 4 - Rounding Amounts of Money. Image: The state of t		1.25 Addition and subtraction: money https://www.ncetm.org.uk/classroom- resources/primm-1-25-addition-and- subtraction-money/
Week 3	Lesson 9 - Chapter Consolidation Measure: Mass, Volume and Length		
Week 4 Week 5 Week 6	H Lesson 1 - Measuring Mass H Lesson 2 - Measuring Mass		
	Lesson 10 - Converting Units of Length Lesson 11 - Measuring Perimeter in Different Units Lesson 12 - Solving Problems Involving Scale Reading Lesson 13 - Chapter Consolidation		

Week 7	Measurement: Area of figures		
Week 8 Week 9	Geometry: Properties of Shapes Lesson 1 - Knowing Types of Angles Lesson 2 - Comparing Angles Lesson 3 - Classifying Triangles Lesson 4 - Classifying Quadrilaterals Lesson 5 - Identifying Symmetrical Figures Lesson 6 - Drawing Lines of Symmetry Lesson 7 - Completing Symmetrical Figures Lesson 9 - Completing Symmetrical Figures Lesson 10 - Sorting Shapes Lesson 11 - Chapter Consolidation	<u>4G-1</u> Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant. (p58-62) <u>4G-2</u> Identify regular polygons, including equilateral triangles and squares, as those in which the side- lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons. (p63-67) <u>4G-3</u> Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry. (p67-70)	2.16 Multiplicative contexts: area and perimeter 1 https://www.ncetm.org.uk/classroom- resources/primm-2-16-multiplicative- contexts-area-and-perimeter-1/
Week 10	Geometry: Position and Movement		

	Lesson 1 - Describing Position	
	Lesson 2 - Describing Position	
	Lesson 3 - Plotting Points	
	★ Lesson 4 - Describing Position	
	 Lesson 5 - Describing Movements 	
	Lesson 6 - Chapter Consolidation	
Week	Place value: Roman numerals	
11	Lesson 1 - Writing Roman Numerals for 1 to 20	
	Lesson 2 - Writing Roman Numerals to 100	
	Lesson 3 - Chapter Consolidation	
14/aab		
Week	Review and revisit	
12	Review and revisit	

<u>Year 5</u>

Year 5 Maths Guidance 2020-2021:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/897804/Maths_guidance_y ear_5.pdf

(See progression on p9-12)

Year 5 Guidance video: <u>https://youtu.be/sdbzlq3imXE?list=PL6gGtLyXoeq-FMWk00AlcIPo3fhGmi03D</u> PD materials: <u>https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/</u>

<u>Autumn Term</u>

	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1 Week 2 Week 3	Place value: Numbers to 1 000 000 H Lesson 1 - Reading and Writing Numbers to 100 000 H Lesson 2 - Reading and Writing Numbers to 1 000 000 H Lesson 3 - Reading and Writing Numbers to 1 000 000 Lesson 4 - Comparing Numbers to 1 000 000	 <u>SNPV-1</u> Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01. (p13-17) 	1.23 Composition and calculation: tenths https://www.ncetm.org.uk/classroom- resources/primm-1-23-composition-and- calculation-tenths/ 1.24 Composition and calculation: hundredths and thousandths https://www.ncetm.org.uk/classroom-
	 Lesson 4 - Comparing Numbers to 1 000 000 Lesson 5 - Comparing Numbers to 1 000 000 Lesson 6 - Comparing Numbers to 1 000 000 Lesson 7 - Comparing Numbers to 1 000 000 Lesson 8 - Making Number Patterns Lesson 9 - Making Number Patterns Lesson 10 - Rounding Numbers Lesson 11 - Rounding Numbers Lesson 12 - Rounding Numbers Lesson 13 - Chapter Consolidation 	5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning. (p17-20)	resources/primm-1-24-composition-and- calculation-hundredths-and-thousandths/ 1.23 Composition and calculation: tenths https://www.ncetm.org.uk/classroom- resources/primm-1-23-composition-and- calculation-tenths/ 1.24 Composition and calculation: hundredths and thousandths https://www.ncetm.org.uk/classroom-
	 Lesson 8 - Making Number Patterns Lesson 9 - Making Number Patterns Lesson 10 - Rounding Numbers Lesson 11 - Rounding Numbers Lesson 12 - Rounding Numbers Lesson 13 - Chapter Consolidation 	<u>SNPV-3</u> Reason about the location of any number with up to 2 decimal places	1.23 Co https:// resourc calcula 1.24 Co hundre https://

system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. (p20-25)	resources/primm-1-24-composition-and- calculation-hundredths-and-thousandths/
5NPV–4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. (p26-30)	 1.23 Composition and calculation: tenths https://www.ncetm.org.uk/classroom- resources/primm-1-23-composition-and- calculation-tenths/ 1.24 Composition and calculation: hundredths and thousandths https://www.ncetm.org.uk/classroom- resources/primm-1-24-composition-and- calculation-hundredths-and-thousandths/
	 1.23 Composition and calculation: tenths https://www.ncetm.org.uk/classroom- resources/primm-1-23-composition-and- calculation-tenths/ 1.24 Composition and calculation: hundredths and thousandths https://www.ncetm.org.uk/classroom- resources/primm-1-24-composition-and- calculation-hundredths-and-thousandths/
	1.26 Composition and calculation: multiples of 1,000 up to 1,000,000 https://www.ncetm.org.uk/classroom- resources/primm-1-26-composition-and- calculation-multiples-of-1-000-up-to-1- 000-000/

			1.27 Negative numbers: counting, comparing and calculating <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-1-27-negative-numbers-</u> <u>counting-comparing-and-calculating/</u>
Week	Addition and subtraction		1.28 Common structures and the part-
4 Week 5	 Lesson 1 - Counting On to Add Lesson 2 - Counting Backwards to Subtract Lesson 3 - Adding within 1 000 000 Lesson 4 - Adding and Subtracting within 1 000 000 Lesson 5 - Adding within 1 000 000 Lesson 6 - Subtracting within 1 000 000 Lesson 7 - Adding and Subtracting within 1 000 000 Lesson 8 - Adding within 1 000 000 Lesson 9 - Subtracting within 1 000 000 Lesson 10 Part 1 - Subtracting within 1 000 000 Lesson 10 Part 2 - Subtracting within 1 000 000 		part-whole relationship <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-1-28-common-</u> <u>structures-and-the-part-part-whole-</u> <u>relationship/</u> 1.29 Using equivalence and the compensation property to calculate <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-1-29-using-equivalence-</u> <u>and-the-compensation-property-to-</u> <u>calculate/</u>
Week 6 Week 7 Week 8	Multiplication and division	5NF–1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. (p35-36) 5MD–1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size. (p42-46)	n/a

Week 9	Lesson 1 - Finding Multiples Lesson 2 - Finding Factors Lesson 3 - Finding Common Factors Lesson 4 - Finding Prime Numbers Lesson 5 - Finding Prime Numbers Lesson 5 - Finding Organe and Cube Numbers Lesson 6 - Finding Square and Cube Numbers Lesson 7 - Multiplying by 10,100 and 1000 Lesson 8 - Multiplying 2-Digit and 3-Digit Numbers by a Single Digit Lesson 9 - Multiplying 4-Digit Numbers Lesson 9 - Multiplying 4-Digit Numbers	5MD–2 Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors. (p46-49)	2.13 Calculation: multiplying and dividing by 10 or 100 https://www.ncetm.org.uk/classroom- resources/primm-2-13-calculation- multiplying-and-dividing-by-10-or-100/
	 Lesson 10 - Multiplying 4-Digit Numbers Lesson 11 - Multiplying 4-Digit Numbers Lesson 12 - Multiplying a 2-Digit Number by a 2-Digit Number Lesson 13 - Multiplying a 3-Digit Number by a 2-Digit Number Lesson 14 - Multiplying a 3-Digit Number by a 2-Digit Number Lesson 15 - Multiplying a 3-Digit Number by a 2-Digit Number Lesson 16 - Dividing by 10, 100 and 1000 Lesson 17 - Dividing 3-Digit Numbers Lesson 18 - Dividing 4-Digit Numbers Lesson 18 - Dividing with Remainder Lesson 20 - Chapter Consolidation 	 5MD-3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method. (p50-53) 5MD-4 Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context. (p54-57) 	 2.9 Times tables:7 and patterns within/across times tables https://www.ncetm.org.uk/classroom- resources/primm-2-09-times-tables-7- and-patterns-within-across-times-tables/ 2.21 Factors, multiples, prime numbers and composite numbers https://www.ncetm.org.uk/classroom- resources/primm-2-21-factors-multiples- prime-numbers-and-composite-numbers/ 2.14 Multiplication: partitioning leading to short multiplication https://www.ncetm.org.uk/classroom- resources/primm-2-14-multiplication- partitioning-leading-to-short- multiplication/ 2.15 Division: partitioning leading to short
			2.15 Division: partitioning leading to sho division <u>https://www.ncetm.org.uk/classroom-</u>

		resources/primm-2-15-division_ partitioning-leading-to-short-division/
		2.18 Using equivalence to calculate <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-2-18-using-equivalence-</u> <u>to-calculate/</u>
		2.19 Calculation: x/ dividing decimal fractions by whole numbers <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-2-19-calculation-</u> <u>decimal-fractions-by-whole-numbers/</u>
		2.20 Multiplication with three factors and volume <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-2-20-multiplication-</u> <u>with-three-factors-and-volume/</u>
		2.22 Combining multiplication with addition and subtraction https://www.ncetm.org.uk/classroom- resources/primm-2-22-combining- multiplication-with-addition-and- subtraction/
Week 10	Word problems	

	 Lesson 1 - Solving Word Problems Lesson 2 - Solving Word Problems Lesson 3 - Solving Word Problems Lesson 4 - Solving Word Problems Lesson 5 - Chapter Consolidation 	
Week	Statistics: Graphs	
11 Week	Lesson 1 - Reading Tables	
12	Lesson 2 - Reading Tables	
	Lesson 3 - Reading Tables	
	★ Lesson 4 - Reading Line Graphs	
	★ Lesson 5 - Reading Line Graphs	
	Hesson 6 - Reading Line Graphs	
	Hesson 7 - Reading Line Graphs	
	Lesson 8 - Chapter Consolidation	

Spring Term

	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	Fractions	5F–1 Find non-unit fractions of quantities. (p57-59)	3.6 Multiplying whole numbers and fractions
Week 2	★ Lesson 1 - Dividing to Make Fractions		<u>https://www.ncetm.org.uk/classroom-</u> resources/primm-3-06-multiplying-whole-
Waab 3	Lesson 2 - Writing Improper Fractions and Mixed Numbers		numbers-and-fractions/
WEER 5	Lesson 3 - Finding Equivalent Fractions		
Week 4	Lesson 4 - Comparing and Ordering Fractions		
	Lesson 5 - Comparing and Ordering Fractions	<u>5F-2</u> Find equivalent fractions and understand that	3.7 Finding equivalent fractions and
	Lesson 6 - Comparing and Ordering Fractions	they have the same value and the same position in	simplifying fractions
	★ Lesson 7 - Making Number Pairs	the linear number system. (p60-63)	https://www.ncetm.org.uk/classroom-
	* Lesson 8 - Adding Fractions		resources/primm-3-07-finding-equivalent-
	Lesson 9 - Adding Fractions		<u>nactions-and-simplifying-nactions/</u>
	Lesson 10 - Adding Fractions		
	* Lesson 11 - Adding Fractions		3.8 Common denomination: more adding and
	★ Lesson 12 - Subtracting Fractions		subtracting
	Lesson 13 - Subtracting Fractions		https://www.ncetm.org.uk/classroom-
	★ Lesson 14 - Subtracting Fractions		<u>resources/primm-3-08-common-</u>
	★ Lesson 15 - Multiplying Fractions by Whole Numbers		denomination-more-adding-and-subtracting/
	★ Lesson 16 - Multiplying Fractions by Whole Numbers		
	★ Lesson 17 - Multiplying Mixed Numbers	<u>5NF-2</u> Apply place-value knowledge to known	
	Lesson 18 - Multiplying Mixed Numbers by Whole Numbers	facts by 1 tenth or 1 hundredth), for example:	
Week 5	Lesson 19 - Chapter Consolidation	8 + 6 = 14	1.23 Composition and calculation: tenths
		0.8 + 0.6 = 1.4	https://www.ncetm.org.uk/classroom- resources/primm-1-23-composition-and-
Week 6		$0.08 \pm 0.06 = 0.14$	calculation-tenths/
		$0.00 \pm 0.00 = 0.14$	

	 becimals Lesson 1 - Writing Decimals Lesson 2 - Reading and Writing Decimals Lesson 3 - Reading and Writing Decimals Lesson 3 - Reading and Writing Decimals Lesson 4 - Comparing Decimals Lesson 5 - Comparing Decimals Lesson 6 - Comparing Decimals Lesson 7 - Writing Fractions as Decimals Lesson 8 - Adding and Subtracting Decimals Lesson 9 - Adding and Subtracting Decimals Lesson 10 - Adding and Subtracting Decimals 	$3 \times 4 = 12$ $0.3 \times 4 = 1.2$ $0.03 \times 4 = 0.12$ (p37-42) 5F-3 Recall decimal fraction equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$, and for multiples of these proper fractions. (p64-66)	 1.24 Composition and calculation: hundredths and thousandths https://www.ncetm.org.uk/classroom- resources/primm-1-24-composition-and- calculation-hundredths-and-thousandths/ 3.10 Linking fractions, decimals and percentages https://www.ncetm.org.uk/classroom- resources/primm-3-10-linking-fractions- decimals-and-percentages/
Neek 7 Neek 8	Decimals and Percentages Image: Elesson 11 - Adding and Subtracting Decimals Image: Elesson 12 - Adding and Subtracting Decimals Image: Elesson 13 - Adding and Subtracting Decimals Image: Elesson 14 - Adding and Subtracting Decimals Image: Elesson 15 - Rounding Decimals Lesson 16 - Chapter Consolidation	<u>5NPV–5</u> Convert between units of measure, including using common decimals and fractions. (p30-34)	3.10 Linking fractions, decimals and percentages <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-3-10-linking-fractions-</u> <u>decimals-and-percentages/</u>

	 Lesson 1 - Comparing Quantities Lesson 2 - Finding Percentages Lesson 3 - Finding Percentages Lesson 4 - Chapter Consolidation 		
Week 9	Geometry: Properties of Shapes	<u>5G–1</u> Compare angles, estimate and measure angles	n/a
Week 10	★ Lesson 1 - Knowing Types of Angles	in degrees (°) and draw angles of a given size. (p67-	
14/00h 11	★ Lesson 2 - Measuring Angles	70)	
Week II	* Lesson 3 - Measuring Angles		
Assessment	Lesson 4 - Investigating Angles on a Line		
Week	Lesson 5 - Investigating Angles at a Point		
Week 12	H Lesson 6 - Drawing Angles		
	H Lesson 7 - Drawing Lines and Angles		
	Lesson 8 - Describing Squares and Rectangles		
	 Lesson 9 - Investigating Angles in Squares and Rectangles 		
	Lesson 10 - Solving Problems Involving Angles in Rectangles		
	Lesson 11 - Solving Problems Involving Angles		
	Lesson 12 - Solving Problems Involving Angles		
	Lesson 13 - Investigating Regular Polygons		
	Lesson 14 - Chapter Consolidation		
Week 11	Spring Term Assessment Week		

Summer Term

	МПР	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	Geometry: Position and Movement Lesson 1 - Naming and Plotting Points Lesson 2 - Describing Translations Lesson 3 - Describing Movements Lesson 4 - Describing Movements Lesson 5 - Successive Reflections Lesson 6 - Chapter Consolidation		
Week 2 Week 3 Week 4	Measurement – Measurements		

Week	Measurement – Area and	5G–2 Compare areas and calculate the area of rectangles	2.16 Multiplicative contexts: area and
5	Perimeter	(including squares) using standard units. (p71-76)	perimeter 1
Week	Lesson 1 - Finding the Perimeter		https://www.ncetm.org.uk/classroom-
6	H Lesson 2 - Finding the Perimeter		resources/primm-2-16-multiplicative-
Maab	H Lesson 3 - Finding the Perimeter		<u>contexts-area-and-perimeter-1/</u>
7 7	* Lesson 4 - Using Scale Diagrams to Find the Perimeter		
	★ Lesson 5 - Measuring the Area		
	* Lesson 6 - Measuring the Area		
	* Lesson 7 - Measuring the Area		
	★ Lesson 8 - Measuring the Area		
	Lesson 9 - Measuring the Area		
	Lesson 10 - Measuring the Area		
	* Lesson 11 - Estimating the Area		
	Lesson 12 - Chapter Consolidation		
Week	Measurement – Volume		
8	Lesson 1 - Understanding the Volume of Solids		
Week	Lesson 2 - Finding the Volume of Solids		
9	Lesson 3 - Finding the Volume of Solids		
	★ Lesson 4 - Finding the Capacity of Rectangular Boxes		
	Lesson 5 - Finding the Capacity of Rectangular Boxes		
	Lesson 6 - Converting Units of Volume		
	Lesson 7 - Converting Units of Volume		
	Lesson 8 - Converting Units of Volume		
	Lesson 9 - Solving Word Problems Involving Volume		
	Lesson 10 - Solving Word Problems Involving Volume		
	Lesson 11 - Chapter Consolidation		

<u>Year 6</u>

Year 6 Maths Guidance 2020-2021:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/897805/Maths_ guidance_year_6.pdf

(See progression on p9-12)

Year 6 Guidance video: <u>https://youtu.be/k0Q7Po_aRCo?list=PL6gGtLyXoeq-FMWk00AlcIPo3fhGmi03D</u> PD materials: <u>https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/</u>

(54 White Space Days)

Y6 Edited for SATs	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	Numbers & Place Value to 10 Million	 <u>6NPV-1</u> Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000). (p13-17) <u>6NPV-2</u> Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. (p17-19) <u>6NPV-3</u> Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. (p20-24) 	 1.22 Composition and calculation: 1,000 and four-digit numbers 1.23 Composition and calculation: tenths 1.24 Composition and calculation: hundredths and thousandths

<u>Autumn Term</u>

		GNPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. (p25-29)	1.30 Composition and calculation: numbers up to 10,000,000
Week 2	Calculations 4 operations. Whole numbers	6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and	

1 1			
Week 3	Lesson 1 - Using Mixed Operations	multiplicative relationships (multiplicative relationships	
Week 4	Lesson 2 - Using Mixed Operations	restricted to multiplication by a whole number). (p29-32)	
lalash E	Lesson 3 - Multiplying by 2-Digit Numbers		
weer 5	Ecsson 4 - Multiplying by 2-Digit Numbers	6AS/MD-1 Use a given additive or multiplicative calculation	
	Lesson 5 - Multiplying by 2-Digit Numbers	to derive or complete a related calculation, using	
	Lesson 6 - Multiplying by 2-Digit Numbers	arithmetic properties, inverse relationships, and place-value	
	* Lesson 7 - Multiplying by 2-Digit Numbers	understanding. (þ29-32)	
	Lesson 8 - Estimating Products of Large Numbers		
	 Lesson 9 - Dividing by 2-Digit Numbers 		
	Lesson 10 - Dividing by 2-Digit Numbers		
	* Lesson 11 - Dividing by 2-Digit Numbers		1.20 Using a duing lange and the
	Lesson 12 - Dividing by 2-Digit Numbers		compensation property to calculate
	★ Lesson 13 - Dividing by 2-Digit Numbers	6AS/MD–3 Solve problems involving ratio relationships.	https://www.ncetm.org.uk/classroom-
	Lesson 14 - Solving Word Problems	(p36-39)	resources/primm-1-29-using-
	Lesson 15 - Solving Word Problems		property-to-calculate/
	Lesson 16 - Solving Word Problems		
	* Lesson 17 - Finding Common Multiples		2.25 Using compensation to calculate
	* Lesson 18 - Finding Common Multiples		https://www.ncetm.org.uk/classroom-
	* Lesson 19 - Finding Common Factors	6AS/MD-4 Solve problems with 2 unknowns. (p39-43)	resources/primm-2-25-using- compensation-to-calculate/
	Lesson 20 - Finding Common Factors		
	Lesson 21 - Finding Prime Numbers		
	Lesson 22 - Finding Prime Numbers		
	Lesson 23 - Chapter Consolidation		
			2.27 Scale factors, ratio and proportional reasoning <u>https://www.ncetm.org.uk/classroom-</u>



			2.28 Combining division with addition and subtraction <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-2-28-combining-</u> division-with-addition-and-subtraction/
			2.29 Decimal place-value knowledge, multiplication and division https://www.ncetm.org.uk/classroom- resources/primm-2-29-decimal-place- value-knowledge-multiplication-and- division/
			2.30 Multiplicative contexts: area and perimeter 2 https://www.ncetm.org.uk/classroom- resources/primm-2-30-multiplicative- contexts-area-and-perimeter-2/
Week 6 Week 7	FDP: Fractions	<u>6F–1</u> Recognise when fractions can be simplified, and use common factors to simplify fractions. (p43-46) <u>6F–2</u> Express fractions in a common denomination and use	3.7 Finding equivalent fractions and simplifying fractions https://www.ncetm.org.uk/classroom- resources/primm-3-07-finding- equivalent-fractions-and-simplifying- fractions/
		this to compare fractions that are similar in value. (p47-50)	3.8 Common denomination: more adding and subtracting
 Lesson 1 - Simplifying Fractions Lesson 2 - Simplifying Fractions Lesson 3 - Comparing and Ordering Fractions Lesson 4 - Comparing and Ordering Fractions Lesson 5 - Comparing and Ordering Fractions Lesson 6 - Adding and Subtracting Fractions Lesson 7 - Adding and Subtracting Fractions 	6F–3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy. (p50-52)	https://www.ncetm.org.uk/classroom- resources/primm-3-08-common- denomination-more-adding-and- subtracting/	
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 Lesson 8 - Adding and Subtracting Fractions Lesson 9 - Adding and Subtracting Fractions Lesson 10 - Adding and Subtracting Fractions Lesson 11 - Multiplying Fractions Lesson 12 - Multiplying Fractions Lesson 13 - Multiplying Fractions Lesson 14 - Dividing a Fraction by a Whole Number 		3.8 Comon denomination: more adding and subtracting <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-3-08-common-</u> <u>denomination-more-adding-and-</u> <u>subtracting/</u>	
 Lesson 15 - Dividing a Fraction by a Whole Number Lesson 16 - Dividing a Fraction by a Whole Number Lesson 17 - Chapter Consolidation 		3.9 Multiplying fractions and dividing fractions by a whole number <u>https://www.ncetm.org.uk/classroom-</u> <u>resources/primm-3-09-multiplying-</u> <u>fractions-and-dividing-fractions-by-a-</u> <u>whole-number/</u>	
		3.10 Linking fractions, decimals and percentages https://www.ncetm.org.uk/classroom- resources/primm-3-10-linking- fractions-decimals-and-percentages/	

Week 8	Autumn Term Test Week
Week 9	FDP: Decimals
Week	Lesson 1 - Writing and Reading Decimals
10	Lesson 2 - Dividing Whole Numbers
	Lesson 3 - Dividing Whole Numbers
	Lesson 4 - Writing Fractions as Decimals
	Lesson 5 - Writing Fractions as Decimals
	H Lesson 6 - Multiplying Decimals
	H Lesson 7 - Multiplying Decimals
Mach	* Lesson 8 - Multiplying Decimals
11	Lesson 9 - Multiplying Decimals
**	* Lesson 10 - Dividing Decimals
	Lesson 11 - Dividing Decimals
	* Lesson 12 - Multiplying a Decimal by a 2-Digit Whole Number
	Lesson 13 - Dividing a Decimal by a 2-Digit Whole Number
	Lesson 14 - Dividing a Decimal by a 2-Digit Whole Number
	Lesson 15 - Chapter Consolidation
Week	Measurements
11	★ Lesson 1 - Converting Units of Length
Week	
12	 Lesson 2 - Converting Units of Length
	Lesson 3 - Converting Units of Length
	★ Lesson 4 - Converting Units of Mass
	Lesson 5 - Converting Units of Volume
	Lesson 6 - Converting Units of Time
	Lesson of Converting onits of Time
	Lesson 7 - Chapter Consolidation

<u>Spring Term</u>

Y6 Edited for SATs	ΜΝΡ	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	FDP: Percentages		3.10 Linking fractions, decimals and
	Lesson 1 - Finding the Percentage of a Number		percentages https://www.ncetm.org.uk/classroom-
	 Lesson 2 - Finding the Percentage of a Quantity 		resources/primm-3-10-linking-fractions-
	★ Lesson 3 - Finding Percentage Change		<u>aecimals-and-percentages/</u>
	 Lesson 4 - Using Percentage to Compare 		
	Lesson 5 - Chapter Consolidation		
Week 2	Word problems		
	Lesson 1 - Solving Word Problems		
	Lesson 2 - Solving Word Problems		
	Lesson 3 - Solving Word Problems		
	Lesson 4 - Solving Word Problems		
	Lesson 5 - Solving Word Problems		
	Lesson 6 - Solving Word Problems		
	Lesson 7 - Chapter Consolidation		
Week 3	Ratio & Proportion: Ratio		

Week 4	\star Lesson 1 - Comparing Quantities	
	Hesson 2 - Comparing Quantities	
	\star Lesson 3 - Comparing Quantities	
	\star Lesson 4 - Comparing Quantities	
	Lesson 5 - Comparing Quantities	
	★ Lesson 6 - Comparing Numbers	
	★ Lesson 7 - Solving Word Problems	
	Lesson 8 - Solving Word Problems	
	Lesson 9 - Solving Word Problems	
	Lesson 10 - Chapter Consolidation	
Waab 5	Alaphra: Alaphra	
vveer J	Aigebra: Aigebra	

Week 6	Lesson 1 - Describing a Pattern		
	* Lesson 2 - Describing a Pattern		
	Lesson 3 - Describing a Pattern		
	Lesson 4 - Describing a Pattern		
	Lesson 5 - Writing Algebraic Expressions		
	Lesson 6 - Writing and Evaluating Algebraic Expressions		
	Lesson 7 - Writing and Evaluating Algebraic Expressions		
	Lesson 8 - Writing Formulae		
	Lesson 9 - Using Formulae		
	Lesson 10 - Solving Equations		
	Lesson 11 - Chapter Consolidation		
Week 7	Measurement: Area & Perimeter		
Week 8	* Lesson 1 - Finding the Area and the Perimeter of Rectangles		
	Lesson 2 - Finding the Area of Parallelograms		
	Lesson 3 - Finding the Area of Triangles		
	H Lesson 4 - Finding the Area of Triangles		
	H Lesson 5 - Finding the Area of Triangles		
	Lesson 6 - Finding the Area of Parallelograms		
	Lesson 7 - Chapter Consolidation		
Week 9	Geometry – properties of shape,	<u>6G–1</u> Draw, compose, and decompose shapes according to	2.16 Multiplicative contexts: area and
	angles	given properties, including dimensions, angles and area, and	perimeter 1
		solve related problems (p53-57)	<u>nttps://www.ncetm.org.uk/classroom-</u>
		source related problems. (pod 57)	resources/primm-2-16-multiplicative-
			resources/primm-2-16-multiplicative- contexts-area-and-perimeter-1/
			resources/primm-2-16-multiplicative- contexts-area-and-perimeter-1/
			resources/primm-2-16-multiplicative- contexts-area-and-perimeter-1/

	Lesson 1 - Investigating Vertically Opposite Angles
	Lesson 2 - Solving Problems Involving Angles
	Lesson 3 - Investigating Angles in Triangles
	Lesson 4 - Investigating Angles in Quadrilaterals
	Lesson 5 - Solving Problems Involving Angles in Triangles and <u>Quadrilaterals</u>
	★ Lesson 6 - Naming Parts of a Circle
	Lesson 7 - Solving Problems Involving Angles in a Circle
	Lesson 8 - Drawing Quadrilaterals
	Lesson 9 - Drawing Triangles
	* Lesson 10 - Drawing Triangles
	* Lesson 11 - Drawing Nets of Three-Dimensional Shapes
	* Lesson 12 - Drawing Nets of Three-Dimensional Shapes
	Lesson 13 - Chapter Consolidation
Week	Geometry – Position and
10	movement
	movement
	Lesson 1 - Showing Negative Numbers
	Lesson 1 - Showing Negative Numbers Lesson 2 - Describing Position
	 Lesson 1 - Showing Negative Numbers Lesson 2 - Describing Position Lesson 3 - Describing Polygons on a Coordinate Grid Lesson 4 - Drawing Polygons on a Coordinate Grid Lesson 5 - Describing Translations Lesson 6 - Describing Reflections
	 Lesson 1 - Showing Negative Numbers Lesson 2 - Describing Position Lesson 3 - Describing Position Lesson 4 - Drawing Polygons on a Coordinate Grid Lesson 5 - Describing Translations Lesson 6 - Describing Reflections Lesson 7 - Describing Movements
	 Lesson 1 - Showing Negative Numbers Lesson 2 - Describing Position Lesson 3 - Describing Position Lesson 4 - Drawing Polygons on a Coordinate Grid Lesson 5 - Describing Translations Lesson 6 - Describing Reflections Lesson 7 - Describing Movements Lesson 8 - Describing Movements
	 Lesson 1 - Showing Negative Numbers Lesson 2 - Describing Position Lesson 3 - Describing Polygons on a Coordinate Grid Lesson 4 - Drawing Polygons on a Coordinate Grid Lesson 5 - Describing Translations Lesson 6 - Describing Reflections Lesson 7 - Describing Movements Lesson 8 - Describing Movements Lesson 9 - Using Algebra to Describe Position
	 Lesson 1 - Showing Negative Numbers Lesson 2 - Describing Position Lesson 3 - Describing Position Lesson 4 - Drawing Polygons on a Coordinate Grid Lesson 5 - Describing Translations Lesson 6 - Describing Reflections Lesson 7 - Describing Movements Lesson 8 - Describing Movements Lesson 9 - Using Algebra to Describe Position Lesson 10 - Using Algebra to Describe Movements
	 Lesson 1 - Showing Negative Numbers Lesson 2 - Describing Position Lesson 3 - Describing Position Lesson 4 - Drawing Polygons on a Coordinate Grid Lesson 5 - Describing Translations Lesson 6 - Describing Reflections Lesson 7 - Describing Movements Lesson 8 - Describing Movements Lesson 9 - Using Algebra to Describe Position Lesson 10 - Using Algebra to Describe Movements Lesson 11 - Chapter Consolidation

Week 11	Spring Term Assessment Week
Week	Measurement – volume
12	Lesson 1 - Finding the Volume of Cubes and Cuboids
	Lesson 2 - Finding the Volume of Cubes and Cuboids
	Lesson 3 - Finding the Volume of Cubes and Cuboids
	Lesson 4 - Finding the Volume of Cubes and Cuboids
	Lesson 5 - Solving Problems Involving the Volume of Solids
	Lesson 6 - Chapter Consolidation

<u>Summer Term</u>

Y6 Edited for SATs	MNP	New Maths Guidance Ready-to-progress criteria	Relevant segment in the PD materials
Week 1	Statistics: graphs and averages		

	★ Lesson 1 - Understanding Averages
	★ Lesson 2 - Calculating the Mean
	H Lesson 3 - Calculating the Mean
	H Lesson 4 - Solving Problems Involving the Mean
	* Lesson 5 - Showing Information on Graphs
	★ Lesson 6 - Reading Pie Charts
	★ Lesson 7 - Reading Pie Charts
	Lesson 8 - Reading Pie Charts
	★ Lesson 9 - Reading Line Graphs
	* Lesson 10 - Reading Line Graphs
	Lesson 11 - Converting Miles into Kilometres
	Lesson 12 - Reading Line Graphs
	Lesson 13 - Chapter Consolidation
Week 2	Revision
Week 3	Revision
Week 4	SATS
Mach E	Contracting the properties of the pas
weer 5	Geometry – properties of snapes
	See previous for lesson
	breakdown

-	
Week 6	Geometry – Position and
	direction
	See previous for lesson
	breakdown
Week 7	Number & place value: negative
	numbers
	Lessen 1. Adding and Subtracting Magatius Numbers
	Lesson 2. Using Nagative Numbers
	Lesson 2 - Chanter Cancelidation
Week 8	Statistics – graphs and averages
	gruphs and averages
Week 9	See previous for lesson
	breakdown
Week	Revisit topics
10	
Week	Revisit topics
11	
Week	Revisit topics
12	

PROGRESSION OF KNOWLEDGE AND PROCESS KNOWLEDGE (SKILLS)

NUMBER AND PLACE VALUE

EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
EYFS ELG: Number I have a deep understandi ng of number to 10, including the composition of each number. I can subitise (recognise quantities without counting) up to 5. I can automatical ly recall (without reference to rhymes, counting or other aids) number bonds up to 5 (includina	 YEAR 1 I can count to and across 100. I can count forwards and backwards to 100, beginning with 0 or 1, or from any given number. I can count, read and write numbers to 100 in numerals. I can read and write numbers from 1 to 20 in numerals. I can read and write numbers from 1 to 20 in numerals. I can read and write numbers from 1 to 20 in numerals. I can count in multiples of twos. I can count in multiples of fives. I can count in multiples of fives. 	 YEAR 2 I can count in 2s, 5s, 3s, 10s forwards. I can count in 2s, 5s, 3s, 10s backwards. I can read and write two-digit numbers and show what each digit stands for (tens, ones). I can write numbers to 100 in order and position them on a number line or a 100 square. I can read and write numbers up 100 in numerals and in words. I understand 0 as a placeholder. I can partition numbers in different ways 	 YEAR 3 I can count in multiples of 4. I can count in multiples of 8. I can count in multiples of 50. I can count in multiples of 100. I can find 10 more or less than a given number. I can find 100 more or less than a given number. I can find 100 more or less than a given number. I can recognise the place value of each digit in a three-digit number (hundreds, tens, ones). I can compare and order numbers up to 1000. I can identify, represent and 	 YEAR 4 I can count in multiples of 25, 9, 7, 6. I can count in multiples of 1000. I can find 1000 more or less than a given number. I can count on and back through zero including negative numbers. I understand the place value of each digit in a four digit number (thousands, hundreds, tens and ones). I can read fourdigit numbers. I can write (in figures and worde) number 	 YEAR 5 I can recognise the place value of each digit in a number to at least 1,000,000. I can read and write numbers to at least 1,000,000 and determine the value of each digit. I can read Roman numerals to 1000 (M) and recognise dates written in Roman numerals. I can <u>compare</u> <u>and order</u> numbers to at least 1,000,000. I can count forwards and backwards in steps of powers of 10 for any given number up 	 YEAR 6 I can read and write numbers up to 10 000 000. I can order numbers up to 10 000 000. I can compare numbers up to 10 000 000. I can say the value of each digit in a number up to 10 000 000, including decimals up to thousandths. I can round any whole number up to 10,000,000 to the nearest 10. I can round any whole number up to 10,000,000 to the nearest 10. I can round any whole number up to 10,000,000 to the nearest 10.
	tens.	,	estimate	beyond 1000.	to 1,000,000.	whole number

subtraction	• Given a number,	 Compare and 	numbers using	• I can order	and •	I can identify all	up to 10,000,000
facts).	I can identify	order numbers	different	compare		multiples and	to the nearest
• Ican	one more and	up to 100 and	representations.	numbers be	eyond	factors,	1000.
automatical	one less to 100.	use the < > =	 I can read and 	1000.		including finding	 I understand
ly recall	 I can identify 	signs.	write numbers	• I can ident	ify	all factor pairs.	negative
some	and represent	• I know the coins	up to 1000 in	represent a	ind •	I can interpret	numbers in
number	numbers using	and notes we	numerals and in	estimate		negative	context and
bonds to 10,	concrete objects	use and can	words.	numbers us	sing	numbers in	calculate
including	and pictorial	make different	 I can solve 	different	_	context.	intervals across
double	representations	amounts.	number	representa	tions. •	l can count	zero. (counting
facts.	including the	• I can write	problems and	• I can round	1	forwards with	forwards)
	number line.	numbers beyond	practical	numbers to	o the	positive and	 I understand
<u>ELG: Numerical</u>	 I can use the 	100.	problems	nearest 10.		negative whole	negative
<u>Patterns</u>	language of:	 I can say the 	involving these	• I can round	1	numbers,	numbers in
• Ican	equal to, more	number that is	ideas.	numbers to	o the	including	context and
verbally	than, less than	one more or one		nearest 100	D.	through zero.	calculate
count	(fewer), most,	less than any	Autumn 1	• I can round	1 •	l can count	intervals across
beyond 20,	least.	number up to	Summer 2	numbers to	o the	backwards with	zero. (counting
recognising		100.		nearest 100	00.	positive and	backwards)
the pattern	Autumn 1			• I can read		negative whole	 I can identify
of the	Autumn 2	Autumn 1		Roman nur	nerals	numbers,	common
counting	Spring 2	Summer 2		to 100 (I to	C).	including	factors,
system.	Summer 1			 I know and 	can	through zero.	common
• I can	Summer 2			explain hou	v the 🔹	I can find	multiples and
compare				Roman nur	nber	missing	prime numbers.
auantities				system		numbers in a	 I can solve
up to 10 in				compares t	o our	sequence that	number
different				system nou	N.	includes	problems and
contexts				 Round deci 	mals	negative	practical
recognising				with 1dp to	o the	numbers.	problems that
when one				nearest wh	iole •	l can recognise	involve all
quantity is				number.		linear number	elements of
greater				Compare a	nd	sequences	place value.
than, less				order numt	pers	involving those	
than or the				with up to	2	fractions,	Autumn 1
same as the				decimal pla	aces.	decimals.	Summer 1
other				• I can solve	•	I can recognise	Summer 2
quantity.				number an	d	linear number	
. ,							

 I can explore 	practical	sequences and
and	problems.	find term-to-
represent		term rule.
patterns	Autumn 1	• I can recall
within	Summer 2	prime numbers
numbers up		up to 19.
to 10,		• I can recognise
including		and use square
evens and		numbers and
odds, double		cube numbers.
facts and		 I can round any
how		number up to
quantities		1,000,000 to the
can be		nearest 10.
distributed		 I can round any
equally.		number up to
Autumn 1 and 2		1,000,000 to the
Autumn I and Z		nearest 100.
Spring 1 and 2		 I can round any
Summer 1 and 2		number up to
		1,000,000 to the
		nearest 1000.
		 I can round any
		number up to
		1,000,000 to the
		nearest 10,000.
		 I can round any
		number up to
		1,000,000 to the
		nearest 100,000.
		• I can solve
		number
		problems and
		practical
		problems.
		• I can compare
		and order
		numbers with 3

		decimal places. I can round decimals with 2dp to the nearest whole number and 1dp.	
		Autumn 1 Summer 2	

ADDITION AND SUBTRACTION

EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
 To use a counting all strategy to combine two sets up to 10. (Spring, Week 4) 	 I can add one more to a given number. I can subtract one more to a given number. I know and can quickly say pairs of numbers that total 10. I know and can quickly say the pairs of numbers that total 20. I can use the +, - and = signs. I can work out addition calculations with 	 I know the pairs of numbers that total 20 and can recall them fluently. I can use the knowledge of pairs of numbers to 10 to derive facts such as 30+70=100. I can add numbers in a different order to check addition. I can use concrete objects and pictorial representations to add and 	 I can add three- digit number and ones. I can add three- digit numbers and tens. I can add a three- digit number and hundreds. I can subtract ones from a three-digit number. I can subtract a tens from a three-digit number. I can subtract a three-digit number. I can subtract hundreds from a 	 I can work out sums and differences of multiples of 10 or 100. I can add two- digit numbers mentally. I can subtract two-digit numbers mentally. I can add numbers with up to three-digits in my head (where it is most efficient). I can subtract three-digit in my 	 I can explain each step when I write addition and subtraction calculations in columns. I can add whole numbers with <u>more</u> than 4 digits, including using formal written methods (columnar addition). I can subtract whole numbers with <u>more</u> than 4 digits, including using formal written methods 	 I can use efficient written methods to add and subtract whole numbers and decimal numbers. I can perform mental calculations, including with mixed operations and large numbers. I know and can explain the order of operations to use in calculations with brackets.

answers to 20.	subtract	three-digit	head (where most	(columnar	• I can use my
(Mentally/objects/	numbers.	number.	efficient).	subtraction).	knowledge of the
pictures).	 I can add and 	• I can use a formal	• I can add three-	 I can add and 	order of
• (Including 0)	subtract some	written methods	digit and four-	subtract numbers	operations to
• I can work out	numbers	of columnar	digit numbers	with up to 2dp.	carry out
subtraction	mentally.	addition.	using a written	• I can mentally	calculations
calculations with	• I know that	• I can use a formal	method	add four-digit	involving the four
answers to 20.	addition and	written methods	(columnar) where	numbers.	operations.
(Mentally/objects/	subtraction are	of columnar	appropriate.	• I can mentally	• I can round
pictures).	the inverse of	subtraction.	• I can subtract	subtract four-	numbers to
• (Including 0)	each other.	• I can estimate	three-digit and	digit numbers.	estimate answers
• I can solve	• I can total	the answer to a	four digit	• I can mentally	to calculations.
missing number	different coins	calculation.	numbers using a	add increasingly	• I can describe and
problems such as	(amounts of	• I can use the	written method	larger numbers	explain
• 7 = ? - 9.	money) and give	inverse operation	(columnar) where	(12 642 + 2300).	sequences,
	change.	to check answers.	appropriate.	• I can mentally	pattern and
Autumn 1	 I can add and 	 I can add and 	• I can estimate	subtract	relationships.
Autumn 2	subtract a two-	subtract money,	answers using	increasingly	• I can solve
Spring 1	digit number and	including £ and p.	rounding to check	larger numbers	addition and
Spring 2	a one-digit	• I can solve	answers to	(12 642 - 2300).	subtraction
	number using	addition and	calculations.	• I can use	multi-step
	practical	subtraction	 I can use the 	rounding to check	problems in
	equipment or a	problems.	inverse operation	answers.	contexts,
	written method	 I can solve 	to check answers	 I can round 	deciding which
	to help me.	missing number	to calculations.	numbers to check	operations and
	 I can add and 	addition	• I can decide	answers in	methods to use
	subtract a two-	problems.	which operation	calculations, and	and why.
	digit number and	 I can solve 	and method to	determine, in the	
	a multiple of 10	missing number	using when	context of the	Autumn 1
	using practical	subtraction	solving problems.	problem, levels of	Summer 1
	equipment or a	problems.	 Add and subtract 	accuracy.	
	written method		numbers with up	• I can solve multi-	
	to help me.	Autumn 1	to 1dp.	step problems in	
	 I can add and 		 I can solve two 	context and	
	subtract two, 2-		step addition	decide which	
	digit numbers		problems in a	operations and	
	using practical		context.	methods to use	
	equipment or a		 I can solve two 	and why.	

wr	itten method	step subtraction		
to	help me.	problems in a	Autumn 1	
• 1 c	an add three 1-	context.		
dig	it numbers			
usi	ng practical	Autumn 1		
equ	lipment or a			
wr	itten method			
to	help me.			
• 1 c	an recall			
add	dition and			
sul	otraction facts			
to	100.			
• c	an work out			
the	e missing			
nu	mber in a			
nu	mber sentence			
suc	ch as 14 +? = 35			
usi	ng the inverse			
rel	ationships			
(FA	CT FAMILIES).			
• 1 6	an recognise			
oda	d and even			
nu	mbers.			
	Autumn 1			
	Autumn 2			

MULTIPICATION AND DIVISION

YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
 I can use numbers to copy and continue a simple pattern. I can count on and back in 2s. I can count on and back in 5s. I can count on and back in 10s. I can find how many there are in 	 I can recall and use all of the 2 times- tables facts. I can recall and use all of the 5 times- tables facts. I can recall and use all of the 10 times- tables facts. I can write number sentences using x ÷ = symbols. 	 I can recall the multiplication facts for the 3 times table. I can recall the multiplication facts for the 6 times table. I can recall the multiplication facts for the 4 times table. 	 I know almost all my tables to 12 x 12. I know all multiplication facts to 12 × 12 (even when mixed). I know all division facts to 12 × 12 (even when mixed). I can multiply by 1 and 0 (mentally). 	 I know my tables to 12 for multiplication facts and division facts and can use these facts to multiply multiples of 10 and 100. I can identify multiples and factors. I can find factor 	 I can multiply multi-digit numbers up to 4 digits by a two- digit whole number using the formal written method of long multiplication. I can divide numbers up to 4 digits by a two- digit whole number
several groups of 2s. I can find how many there are in several groups of 5s. I can find how	 I know that 3x5 gives the same answer as 5x3 (Recognise equivalence). I know, understand and can show 	 I can recall the multiplication facts for the 8 times table. I can recall the division facts for the 3 times table 	 I can divide by 1 and 0 (mentally). I can multiply together three numbers (mentally) - making connections to the 	 pairs of a number and common factors of two numbers. I know and use the vocabulary of prime numbers, prime 	using the formal written method of long division. • When dividing I can interpret remainders as whole number
 rean find now many there are in several groups of 10s. I can recall or work out doubles of numbers to 5+5. 	multiplication of two numbers can be done in any order (achieving the same product) but subtraction cannot	 I can recall the division facts for the 6 times table. I can recall the division facts for the 4 times table. 	 most efficient combinations. Use place value, known and derived facts to multiply three numbers 	factors and composite (non- prime) numbers. I can recall all prime numbers to 19.	remainders, fractions, or by rounding, as appropriate for the context. I can divide
 I can put objects into equal groups of two. I can put objects into equal groups of five. 	 (Commutative). I can group and share quantities of objects to solve multiplication and division problems. 	 I can recall the division facts for the 8 times table. I can give the multiplication fact that is linked to a division fact. 	 together. I can recognise and use factor pairs and commutativity in mental calculations (3x2=2x3). 	 I can establish whether a number up to 100 is prime or not. I can use an efficient written method to multiply 	numbers up to 4 digits by a two- digit number using the formal written method of short division where appropriate,

I can put objects I can solve	• I can multiply a	I can estimate and	numbers up to a	interpreting
into equal groups of problems involving	two-digit number	check the result of	four-digit number	remainders
ten. multiplication	by a one-digit	a calculation.	by a one-digit	according to the
• I can recall or work through arrays.	number (mentally).	 I can use a written 	number.	context.
out doubles of all • I can solve	 I can divide a two- 	method to multiply	 I can use an 	 I can perform
numbers to 12+12. problems involving	digit number by a	a two-digit number	efficient written	mental
I can use doubles I multiplication	one-digit number	and three-digit	method to multiply	calculations,
know to help me through repeated	(mentally).	number by a one-	numbers up to	including with
work out other addition.	• I can use a written	digit number.	four-digits by a	mixed operations
doubles.	method to multiply	• I can use a formal	two-digit number,	and large numbers.
• I can solve one-step Autumn 2	a two-digit number	written method to	including long	_
problems involving Spring 1	by a one-digit	divide a two-digit	multiplication.	 I know and can
multiplication and	number.	number by a one-	• I can use an	explain the order of
division using	• I can use a written	digit number.	efficient written	operations to use in
objects, pictorial	method to divide a	• I can use the	method to divide a	calculations with
representations and	two-diait number	distributive law to	four-digit number	brackets.
arravs.	by a one-diait	multiply two diait	by a one-digit	 I can use my
	number.	numbers by 1 diaits	number.	knowledge of the
	• I can connect the 2.	numbers.	• I can use a short	order of operations
Spring 2	4 and 8 x tables and	• I can scale objects	division method.	to carry out
Summer 1	the 3 and 6 x	by using	 I know when to 	calculations
	tables	multiplication and	round up or down	involving the four
	• I can solve	explain the process	(remainders in	operations.
	problems including	• I can scale objects	division) depending	• I can give a good
	missing number	by using division	on the problem and	estimate of an
	problems	and can explain the	the context	answer before l
	 I can scale objects 	process	 I can explain each 	multiply or divide
	up by using my		step of my	large numbers or
	knowledge of	troblems where h	calculation	decimals
	multiplication and	objects are	 Lean use different 	 L can factorico
	division	connected to m	• i cari use allerent	• I call factorise
	alvision.	connected to m	for multiplication	with montal
	• I can scale objects	objects.	depending on the	
	aown using my		appending on the	calculations.
	kriowledge of	Autumen 2	numbers involved.	• I cari jirid trie
	multiplication and	Autumn 2	• i can use airrerent	fignest common
	aivision.	Spring 1	mental strategies	factor of alfferent
	• I can solve		for aivision	numbers.
	problems in which			

	'n' objects are connected to 'm' objects (e.g. 3 hats and 4 coats—how many different outfits?) Autumn 2	 depending on the numbers involved. I can multiply or divide a whole number or decimal by 10, 100 and 1000. I can scale amounts up or down using different rates. I can use materials and diagrams to multiply simple fractions by whole numbers. I can solve problems involving multiplication and scaling. I can explain the equals sign to indicate equivalence, including missing numbers (13+24 = 12+25; 33=5 x?). Autumn 2 	 I can find the lowest common multiple of different numbers. I can describe and explain sequences, pattern and relationships. Autumn 1 Summer 1
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FRACTIONS, DECIMALS AND PERCENTAGES

YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
 YEAR 1 I can find and name half of an object, shape or quantity. I can find and name a quarter of an object, shape or quantity. I recognise that a half is one of two equal parts. I recognise that a quarter is one of four equal parts. Summer 1 	 YEAR 2 I can recognise, find and name 1/2 or 2/4 of a length. I can recognise, find and name 1/2 or 2/4 of a set of objects. I can recognise, find and name 1/2 or 2/4 of a set of a quantity. I can recognise, find and name 1/4 of a length. I can recognise, find and name 1/4 of a set of objects. I can recognise, find and name 1/4 of a set of a quantity. I can recognise, find and name 1/3 of a length. I can recognise, find and name 1/3 of a set of objects. I can recognise, find and name 1/3 of a set of objects. I can recognise, find and name 1/3 of a set of a quantity. I can recognise, find and name 1/3 of a set of a quantity. I can recognise, find and name 1/3 of a set of a quantity. I can recognise, find and name 1/3 of a set of a quantity. I can recognise, find and name 1/3 of a set of a quantity. 	 YEAR 3 I can count up and down in tenths on a number line. I can find tenths by dividing an object into ten EQUAL parts. I can find fractions of a discrete set of objects: unit fractions (1/3 of 36). I can find fractions of a discrete set of objects: non-unit fractions (2/3 of 36). I can recognise and use fractions as numbers: unit fractions and non- unit fractions with small denominators. I can recognise equivalent fractions (using diagrams). I can add and subtract fractions with the same 	 YEAR 4 I can recognise and show, using diagrams, families of common equivalent fractions. I can count up and down in hundredths. I recognise that fractions arise when dividing an object by one hundred and dividing tenths by ten. I can add and subtract fractions with the same denominator (e.g. 4/5 – 1/5). I can also show this through diagrams (beyond a whole). I can recognise and write decimal equivalents of any number of tenths or hundredths (7/10, 35/100). I can find the effect of dividing a one or two-digit number by 	 YEAR 5 I can compare and order fractions when the denominators are all multiples of the same number. E.g. I can put ½, 3/5 and 7/10 in order of size. I can identify, name and write equivalent fractions of a given fraction. I can identify, name and write equivalent fractions of a given fraction using visual representation. I can identify, name and write equivalent fractions of a given fraction using visual representation. I can identify, name and write equivalent fractions of a given fraction using visual representation. I can identify, name and write equivalent fractions of a given fraction using visual representation. I can identify, name and write equivalent fractions of a given fraction using visual representation. I can identify, name and write equivalent fractions of a given fraction using visual representation including 10th and 100ths. I recognise and can convert mixed numbers and improper fractions and can covert one from the other. E.g. I 	 YEAR 6 I can use common factors to simplify fractions. I can compare and order fractions > 1. I can use common multiples to express fractions in the same denomination (5/6 = 15/18). I can add fractions with different denominators and mixed numbers using the concept of equivalent fractions. I can subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions. I can multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 x 1/2 = 1/8). I can divide proper
	length.	a whole). • I can compare unit	identifying the value of the digits in the	same as 3/2.	numbers (e.g. 1/3 ÷2=

	fugations			. I danatar: I .
• I can recognise, find	fractions and	answer as ones,	mathematical	• I understand a
ana name 3/4 of a	fractions with the	tenths and	statements such as	fraction is linked to
set of objects.	same denominator.	hunareaths.	$\frac{2}{5} + \frac{4}{5} + \frac{6}{5}$	division and
• I can recognise, find	• I can put fractions	• I can round decimals	• 5 + 5 = 5 =	calculate decimal
and name 3/4 of a	with the same	with one decimal	1 1	fraction equivalents
set of a quantity.	denominator in	place to the nearest	- 5	(e.g. 0.375) for a
• I can write simple	order.	whole number.	• I can add fractions	simple fraction (e.g.
fractions	 I can solve addition 	• I can compare	with the same	3/8).
• E.g. 1/2 of 6 = 3.	and subtraction	numbers with the	denominator and	• I can convert
 I can recognise the 	multi-step problems	same number of	denominators that	fractions to
equivalence of two	in contexts, deciding	decimal places up to	are multiples.	decimals.
quarters and one	which operations	two decimal places.	 I can subtract 	 I can identify the
half.	and methods to use	• I can solve simple	fractions with the	value of each digit in
• I can count in	and why.	measure and money	same denominator	numbers give to
fractions up to 10		problems involving	and denominators	three decimals
(for example, 1 1/4, 1	Summer 1	fractions and	that are multiples.	places.
2/4 or 1 1/2, 1 3/4, 2).		decimals to two	 I can multiply proper 	 I can multiply one-
		decimal places.	fractions and mixed	digit numbers with
Spring 1		 I know that one- 	numbers by whole	up to two decimal
Spring 2		tenth can be written	numbers, supported	places by a whole
		as 1/10 or as 0.1 and	by materials and	number.
		that one-hundredth	diagrams.	 I can use written
		can be written as	• I can connect	division where the
		1/100 or 0.01	equivalent fractions	answer has up to
		• I know that 1/2 can	> 1 that simplify to	two decimal places.
		also be written as	integers with	 I can recall and use
		0.5, 1/4 as 0.25 and	division and	equivalences
		3/4 as 0.75	fractions >1 to	between simple
		• I can use a number	division with	fractions, decimals
		line to connect	remainders, using	and percentages,
		fractions, numbers	the number line and	including in different
		and measures.	other models.	contexts.
		• I understand the	• I can count forwards	• I can solve problems
		relation between	and backwards in	which require
		non-unit fractions	simple fractions.	answers to be
		and multiplication	• I can mentally add	rounded to specified
		and division of	and subtract tenths,	degrees of accuracy.
		quantities.		

 I can use factors and 	and one-digit whole	• I can calculate % of
multiples to	numbers and tenths.	whole number.
recognise equivalent	• I can read decimal	
fractions and	numbers as	Autumn 1
simplify where	fractions.	Autumn 2
appropriate.	 I can write decimals 	Spring 1
 I can recognise and 	numbers as	
write equivalent	fractions.	
fractions.	 I recognise and use 	
	thousandths and	
Spring 1	relate them to	
Spring 2	tenths, hundredths	
	and decimal	
	equivalents.	
	• I can round decimals	
	to two decimal	
	places, to the	
	nearest whole and	
	one decimal place.	
	• I can read and write	
	decimal up to three	
	decimal places.	
	• I can order decimal	
	up to three decimal	
	places.	
	• I can compare	
	decimal up to three	
	decimal places.	
	• I can solve problems	
	involving numbers up	
	to 3dp.	
	• I know that 'per	
	cent' means 'parts in	
	every 100', so $1% =$	
	1/100.	
	• I can write the	
	percentages as a	
	 I can write the percentages as a 	

		 fraction with a denominator 100. I can write a percentages as a decimal. I can solve problems which require knowing percentages and decimal 	
		 equivalent of those fractions with a denominator of a multiple of 10 and 25. I can solve problems which require knowing percentages and decimal equivalent of 1/2, 1/4 1/5, 2/5, 4/5. I can find a simple percentage of a 	
		quantity. Spring 1 Spring 2	

MEASUREMENT

EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
 I can compare and order by size, length and time. (Autumn, Week 3) 	 I can compare the lengths of more than two objects and put them in order 	 I can choose and use appropriate standard units to estimate and measure length/ beight in any 	 I can choose suitable units to estimate and measure length. I can suggest suitable units to 	 I can convert between different units of measure (e.g. km to m). 	 I can convert between different units of measure (km-m). 	 I can solve problems involving the calculation and conversion of units of
 I can talk about time in terms of night and day, days of the week and months of the 	 (longer, shorter, longest, shortest). I can compare the weights of more than two objects and put them in order 	 direction (m/cm) to the nearest appropriate unit using rulers. I can choose and use appropriate 	 I can suggest suitable units to measure volume/capacity . 	and calculate the perimeter of a rectilinear figure (including squares) in centimetres and	 I can convert between different units of measure (cm- m). I can convert between different units 	measure, using decimal notation to three decimal places where appropriate.
 (Autumn, Week 7) I can use language related to time and to be able to sequence avants 	 them in order (heavier, lighter, heaviest, lightest. I can compare the capacities of more than two objects and put them in order 	 standard units to estimate and measure mass (kg/g) using scales. I can choose and use appropriate standard units to actimate and 	 I can measure different lengths m/ cm/mm. I can measure different mass Kg/g. I can measure different volume 	 Metres. I can find the area of rectilinear shapes by counting squares. I can estimate, compare and 	 alfferent units of measure (cm- mm). I can convert between different units of measure (g- kg). 	 I can use, read and write and convert between standard units (mass, length, volume and time) from a
 (Autumn, Week 7) I can measure end-to-end length, compare lengths and use non-standard units of measurement. (Spring, Week 9) 	 (more than, less than, most, least). I can compare time (quicker, slower, quickest, slowest, earlier, later). I am beginning to usa 	 measure temperature (° C) to the nearest appropriate unit using thermometers. I can choose and use appropriate standard units to actimate and 	 and capacity I/ml. I can add and subtract different lengths m/cm/mm. I can add and subtract different mass Kg/g. 	 calculate different measures, including money in pounds and pence. I know the relationships between units of measure: metroc and 	 between different units of measure (l- ml). I can estimate and measure length in kilometres, metres, centimetres and millimatres 	smaller unit to a larger unit. (up to 3dp) i.e. 1km and 251m = 1.251km =1251m. I can use, read and write and convert between ctandard units

• Lean use the	measuring tools	measure	subtract	contimetros	using	(mass length
	such as a ruler	cabacity	different volume	bilograms and	abbrobriata	volume and
ampty (full)	such as a ruler,	(litrac(mal) to the	and apparity	Recognations and	appropriace	time) from
emply, juli	weighting scales	(IICres/MI) to the		grams, litres	measuring	c(me) from a
deservibe hour	and concarriers	nearest		and millites (i	tristruments.	larger unit to a
describe now	• I can measure	appropriate unit	• 1 can compare	can convert).	• I can use some	smaller unit.
much is in a	and begin to	using measuring	alfferent lengths	• I can read time	common	(up to sap)i.e.
container.	record lengths	vessels.	m/ cm/mm.	on analogue and	imperial units	1 m and $251 m =$
(Spring, Week 10)	and neights (cm	• I can compare		aigitai 12- ana	and their	1.251RM
	ana m).	and order	• I can compare	24- hour clocks.	equivalent	=1251m.
I can measure	• I can measure	lengths and	different mass	• I can write time	metric	• I can covert
the capacity of	and being to	record the	Kg/g.	on analogue and	measurement	between
containers.	record mass and	results using >,	• I can compare	aigital 12- ana	Inches, pounas,	Kilometres and
(Spring, Week 10)	weight (kg and	< and =.	different volume	24– hour clocks.	pints.	miles. I know
	g).	• I can use	and capacity	• I can convert	• I can measure	that 1 mile is
	I can measure	vocabulary such	l/ml.	time between	and calculate	about 1.6 km,
	and begin to	as: 'half as high'	 I can add 	analogue and	the perimeter of	and that 1 km is
	record capacity	and 'twice as	money,	digital 12– and	composite	about 5/8 of a
	and volume (l	wide'.	including £ and	24– hour clocks.	rectilinear	mile.
	and ml).	 I can compare 	p.	 I can solve 	shapes in cm	 I know that
	 I can measure 	and order mass	 I can subtract 	problems	and m.	shapes with the
	and begin to	and record the	money,	converting	• I can calculate	same areas can
	record time	results using >,	including £ and	hours to	the area of	have different
	(hours, minutes,	< and =.	p.	minutes.	rectangles	perimeters and
	seconds).	 I can compare 	 I can work out 	 I can solve 	(including	vice versa.
	 I can recognise 	and order	change.	problems	squares) and	 I can calculate
	the different	volume/capacity	 I can tell and 	converting	including using	the area of
	values of money	and record the	write time from	minutes to	standard units,	triangles using
	(coins).	results using >,	an analogue	seconds.	square	my knowledge
	 I can recognise 	< and =.	clock.	 I can solve 	centimetres	of areas of
	the different	 I can find 	 I can use Roman 	problems	(cm2) and	rectangles.
	values of money	different	numerals from I	converting years	estimate the	 I can calculate
	(notes).	combinations of	to XII.	to months.	area of irregular	the area of
	 I can sequence 	coins that equal	 I can tell and 	 I can solve 	shapes.	parallelograms
	events in	the same	write time from	problems	 I can estimate 	using my
	chronological	amounts of	a 12-hour and	converting	the volume	knowledge of
	order (before,	money.	24-hour clock.	weeks to days.	(using 1cm3	areas of
	after, next, first,	 I can solve 		 I can relate area 	blocks to build a	rectangles and
	today,	simple problems	 I can read the 	to arrays and	cuboid.	triangles.

I					-
yesterday,	in a practical	time on a clock	multiplication.	• I can estimate	 I can work out
tomorrow,	context	to the nearest		capacity (using	the volume of
morning,	involving	minute.	Spring 2	water).	different cubes
afternoon and	addition and	• I can read the	Summer 1	 I can solve 	and cuboids
evening.	subtraction of	time on a clock		problems	made from
 I can correctly 	money of the	to the nearest		involving	centimetre
use and	same unit,	5 minutes.		converting	cubes.
understand the	including giving	• I can record and		between units	• I can calculate
days of the	change.	compare time in		of time.	the volume of
week.	• I can compare	terms of		 I can solve 	different cubes
 I can correctly 	and sequence	seconds,		problems, using	and cuboids
use and	intervals of	minutes and		a timetable	(including cm3,
understand	time.	hours.		written in 24-	m3).
months of the	 I can tell and 	• I can use		hour clock	• I can calculate
year.	write time to 5	vocabulary such		notation.	and compare
• I can correctly	minutes,	as a.m. /p.m.,		• I can solve	the volume of
use and	including	morning,		problems	different cubes
understand	quarter past/to	afternoon, noon		converting	and cuboids
years.	the hour and	and midnight.		between units	(including mm3,
• I can tell the	draw the hands	• I know the		of time. I can	km3).
time to the	on a clock face	number of		change am or	 I can solve
hour.	to show these	seconds in a		pm times to 24-	problems, using
• I can tell the	times.	minute.		hour clock	a timetable
time to half	 I know the 	 I know the 		times, and vice	written in 24-
past the hour.	number of	number of days		versa.	hour clock
	minutes in an	in each month,		• I can solve	notation.
• I can draw the	hour and hours	year and leap		problems	
hands on a clock	in a day.	year.		involving	Autumn 2
faces to show		• I can find how		addition and	Spring 2
my	Spring 1	long an activity		subtraction of	
understanding	Spring 2	takes if I know		units of	
of time.	Summer 1	when it starts		measure (length,	
	Summer 2	and when it		mass, volume,	
Spring 1		ends.		money) using	
Summer 2		• I can compare		decimal	
		durations of		notation,	
		events.		including	
				scaling.	

Spring 1	• I can use all
Spring 2	four operations
Summer 2	to solve
	problems
	involving time
	and money,
	including
	conversions (for
	example, days
	to weeks,
	expressing the
	answer as
	weeks and days.
	 I can express
	missing
	measures
	questions
	algebraically.
	Summer 1
	Summer 2

<u>GEOMETRY – PROPERTIES OF SHAPE AND POSITION AND</u> <u>DIRECTION</u>

EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
I can recognise language associated with 2D shapes, specifically triangles and squares. (Autumn, Week 10) I can recognise language associated with 2D shapes, specifically rectangles and circles. (Autumn, Week 11)	 I know the names of familiar 2-D shapes and I can picture these shapes in my head (squares, rectangles, circles and triangles). I know the names of familiar 3-D shapes and I can picture these shapes in my head (cubes, cuboids, pyramids and spheres). 	 Identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D 	 I can draw 2D shapes. I can recognise whether a 2-D shape is symmetrical or not and describe how I know. I can make 3-D shapes using modelling materials. I can recognise 3- D shapes in different orientations. 	 I can compare and classify triangles according to their properties and size (equilateral, isosceles, scalene, right-angles isosceles etc.). I can pick out triangles that have a right angle from other triangles. I can compare and classify 	 I can identify 3D shapes including cubes and other cuboids from 2D representations. I know angles are measured in degrees; estimate and measure them and draw a given angle, writing its size in degrees (o). I can identify multiples of 900. I can identify 	 I can draw 2-D shapes accurately, with given dimensions and angles. I can recognise, describe and build simple 3D shapes including drawing nets and making nets. I can compare and classify geometric shapes based on their properties and
I can understand and use positional language. (Autumn, Week 12) I can compose 2D shapes using tangrams and pattern blocks. (Spring, Week 11)	 I can recognise 2D and 3D shapes in different orientations and sizes in my surroundings. I can use words such as: left and right, top, middle and bottom, on top of, in front of, 	 shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid. I can read and write some names for shapes. 	 I can describe the properties of 3-D shapes. I recognise that angles are a property of shape or a description of a turn. I can identify right angles. I recognise that 	quadrilaterals based on properties and size (parallelogram, rhombus, trapezium). • I can identify acute and obtuse angles. • I can compare	 angles at a point on a straight line and 1/2 a turn (total 1800). I can identify angles at a point and one whole turn (total 3600). I can identify reflex angles. I can identify and 	sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. I can illustrate and name the parts of circles, including radius, diameter and circumference.

	-	-	-			
	above, between,	• I can draw lines	two right angles	and order angles	compare angles.	 I know that the
l can recognise 3D	around, near,	and shapes using	make a half-turn,	up to two right	 I can draw shapes 	diameter is twice
shapes and to build	close and far, up	a straight edge.	three make three	angles by size.	using given	the radius.
with 3D shapes.	and down,		quarters or a turn	I know facts	dimensions and	• I can recognise
(Spring, Week 12)	forwards and	• I can compare	and four a	about regular	angles.	angles where
	backwards, inside	and sort common	complete turn.	polygons such as	 I can state and 	they meet at a
	and outside.	2-D and 3-D	• I can identify	the number of	use the properties	point, are on a
	• I can describe	shapes and	whether angles	sides and number	of rectangles	straight line, or
	positions of	everyday objects.	are greater than	of angles.	(including	are vertically
	objects.	• I can order and	or less than a	• I can use what I	squares) to	opposite.
	• I can describe	arrange	right angles (900).	know about	deduce related	 I can find missing
	half, quarter and	combinations of	• I can identify	polygons to group	facts.	angles.
	three-quarter	mathematical	horizontal and	them into regular	• I can distinguish	• I can explain how
	turns.	objects in	vertical lines.	and irregular	between regular	unknown angles
	• I can make whole,	patterns.	• I can identify	polygons.	and irregular	and lengths can
	half, quarter and	• I can recognise	pairs of	 I can identify 	polygons based on	be derived from
	three-quarter	patterns of	perpendicular and	lines of symmetry	reasoning and	known
	turns in both	shapes, including	parallel lines.	in 2D shapes	equal sides and	measurements.
	directions.	those in different		presented in	angles.	• I can express
	• I can connect	orientations.	Summer 2	different	• I am accurate in	relationships
	turning clockwise	• I can use maths		orientations.	drawing lines	algebraically.
	with movement	vocabulary to		• I can draw	with a ruler to	• I can describe
	on a clock face.	describe position,		symmetric	the nearest mm.	positions on the
		direction and		patterns using a	• I can measure	full coordinates
		movement		variety of media	accurately with a	grid (all four
	Autumn 2	including in a		to become	protractor.	quadrants).
	Spring 1	straight line.		familiar with	• I can use the	• I can draw and
	Summer 2	• I can distinguish		different	term diagonal	translate simple
		between rotation		orientations of	and make	shapes on the
		as a turn and in		lines of	conjectures about	coordinates
		terms of right		symmetry.	the angles formed	plane, and reflect
		angles for		 I can recognise 	by diagonals and	them in the axes.
		quarter, half and		lines of symmetry	sides, and other	
		three– quarter		in a variety of	properties of	Autumn 2
		turns (clockwise		diagrams,	quadrilaterals.	Spring 2
		and anti-		including where		
		clockwise).		the line of	 I use angle sum 	
				symmetry does	facts and other	

Summer 1	not dissect the properties to
	original shape. make deductions
	• I can complete a about missing
	simple symmetric angles and relate
	figure with these to missing
	respect to a number problems.
	specific line of • I can identify,
	symmetry. describe and
	• I can describe represent the
	positions on a 2-d position of a
	grid as shape following a
	coordinates in reflection or
	the first translation, using
	quadrant. appropriate
	• I can describe language, and
	movements know that the
	between shape has not
	positions as changed.
	translations of a • I recognise and
	given unit to the use reflection and
	left/right and translation in a
	up/down. variety of
	• I can plot specific diagrams,
	points and draw including
	sides to complete continuing to use
	a given polygon. a 2D grid and
	• I can draw a pair coordinates in
	of axes in one the first
	quadrant, with quadrant.
	equal scales and
	integer labels. Spring 2
	• I can read, write Summer 1
	and use pairs of
	coordinates (2, 5)
	including using
	coordinate-
	plotting ICT tools.
	Summer 2

STATISTICS

YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	 I can interpret and construct simple pictograms. I can interpret and construct tally charts. I can interpret and construct block diagrams. I can interpret and construct simple tables. I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. I can ask and answer questions about totalling and compare categorical data. 	 I can read pictograms. I can read tally charts and tables. I can read bar charts. I can present data using scaled pictograms. I can present data using scaled tables. I can present data using scaled bar charts. I can answer questions about pictograms. I can answer questions about tally charts and tables. I can answer questions about tally charts and tables. I can answer questions about bictograms. I can answer questions about tally charts and tables. I can ask questions linked to pictograms. I can ask questions linked to tally charts and tables. I can ask questions linked to bar 	 I can interpret discrete data using appropriate graphical methods (bar charts). I can interpret continuous data using appropriate graphical methods (bar charts). I can present discrete data using appropriate graphical methods (bar charts). I can present continuous data using appropriate graphical methods (bar charts). I can interpret discrete data using appropriate graphical methods (bar charts). I can interpret discrete data using appropriate graphical methods (time graphs). I can interpret continuous data using appropriate graphical methods (time graphs). I can present discrete data using appropriate graphical methods I can present discrete data using appropriate 	 I can solve comparison problems using information presented in a line graph. I can solve sum problems using information presented in a line graph. I can solve difference problems using information presented in a line graph. I can complete information in tables. I can read information in tables. I can interpret information in tables. I can complete information in tables. I can interpret information in timetables. I can read information in timetables. I can interpret information in timetables. I can interpret information in timetables. I can interpret information in timetables. 	 I can interpret pie charts to solve problems. I can interpret lines graphs to solve problems. I can construct pie charts and use these to solve problems. I can construct line graphs and use these to solve problems. I can calculate the mean as an average (of a set of data). I can interpret the mean as an average and use this to solve problems. I can connect my work on angles, fractions and percentages to the interpretation of pie charts. I can encounter and draw graphs relating two variables, arising from their own enquiry and in

 charts. I can solve one step problems involving pictograms. I can solve one step problems involving tally charts and tables. I can solve one step problems involving bar charts. I can solve two step problems involving pictograms. I can solve two step problems involving tally charts and tables. I can solve two step problems involving tally charts and tables. I can solve two step problems involving bar charts. I can solve two step problems involving bar charts. I can solve two step problems involving tally charts and tables. I can solve two step problems involving bar charts. 	 graphical methods (time graphs). I can present continuous data using appropriate graphical methods (time graphs). I can solve graphical methods (time graphs). I can solve comparison problems using information presented in bar charts. I can solve difference problems using information presented in problems using information presented in problems using information presented in pictograms. I can solve sum problems using information presented in pictograms. I can solve difference problems using information presented in pictograms. I can solve difference problems using information presented in pictograms. I can solve sum problems using information presented in
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 pictograms. I can solve comparison problems using information presented in other graphs (line graphs). I can solve sum problems using information presented in other graphs (line graphs). I can solve difference problems using information 	
presented in (line graphs). Spring 1	

RATIO AND PROPORTION

YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
					• I can solve problems
					relative sizes of two
					augntities where
					missing values can
					be found by using
					integer
					multiplication and
					division facts.
					 I can solve problems
					involving the
					calculations of
					percentages (e.g. of
					15% of 360 and the
					use of percentages
					for comparison.
					• I can solve problems
					involving similar
					shapes, where the
					scale factor is
					known or can be
					found.
					• I can solve problems
					involving unequal
					sharing and
					browledge of
					fractions and
					multiples.
					• I can recognise
					proportionality in
					contexts when the

	relations between
	quantities are in
	the same ratio (for
	example, similar
	shapes and recipes).
	• I can use ratio and
	proportion to link
	percentages or 360°
	to calculating
	angles of pie charts.
	• I can use ratio when
	comparing sizes and
	scale drawings by
	solving a variety of
	problems.
	• I can solve problems
	involving unequal
	auantities for
	example, 'for every
	eda vou need 3
	spoonfuls of flour'
	'3/5 of the class are
	boys'
	Spring 1
	Spring I

ALGEBRA

YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
					 I can generate and describe linear number sequences. I can write and use simple expressions in words and formulae.
					 I can express missing number problems algebraically. I can use formula to work out missing numbers. I can find pairs of numbers that satisfy an equation with two unknowns. I can enumerate all possibilities of combinations of two variables. I can use simple formulae I can use formula to work out missing lengths, coordinates and angles. I can use equivalent expressions.

		 generalisations of number patterns. I can solve number puzzles and problems where enumerate possibilities of combinations of two variable exist number puzzles (for example, what 2 numbers can add up to).
		Spring 1
ASSESSMENT

Assessment grids, standardised testing, and gap analysis

Our maths assessment grids for each child allow us to track pupils' maths progress across each year group. There are three checkpoints within the year where children complete standardised NFER papers for maths. In Year 2 and Year 6 teachers us previous SATs papers at the same checkpoints to track progress accurately. Once these papers are completed, teachers complete gap analysis grids to highlight any gaps in knowledge and use these to plan interventions and guide future teaching.

Chapter Reviews and Pre-assessment

We also use 'Chapter Reviews' in the Maths No Problem workbooks once a unit of work has gone 'cold' to support on-going assessment. Teachers plan pre-assessments to take place before teaching a new unit of work. This enables teachers to adapt short term planning to include time to address areas of need.

Retrieval practice and AfL (Assessment for Learning)

Five minutes of maths retrieval practice takes place each day which supports AfL. Teachers observe and respond to pupils during a lesson, offering verbal feedback and prompting of deeper thinking using questioning for mastery (how could? what if? How do you know?). Children are supported to use concrete resources, teaching materials on interactive whiteboards, working walls, sentence stems and key vocabulary to explain their thinking and develop understanding. Ongoing teacher observation identifies pupil progress and attainment during lessons and enables learners to be challenged through response and feedback.

At the end of each academic year, this enables teachers to assess outcomes in maths. Teachers will moderate their maths judgements regularly both in school and externally to ensure accuracy of judgements.