Year 4- Ov	/ear 4- Overview													
	Week	Week	Week 3	Week	Week	Week 6	Week 7	Week 8	Week	Week	Week 11	Week	Week 13	Week 14
	1	2		4	5				9	10		12		
Autumn	Number-Place Value			Number- Addition & Measure-			Measure-	Number: Multiplication & Division				<b>Consolidate</b>		
				Subtra	ction		Length &							
						Perimeter								
Spring	Measure: Number: Fractions		actions	Number: Decimals				Geometry: Pro	operties	Consolidate				
	Area								of shape					
Summer	Measu	re:	Measure:	Geome	etry:	Statistics	Number- A	ddition &	Numbe	er:	Consolidate	Note: Spo	orts week – will	be
	Time		Money	Positio	n &		Subtraction	ר/	Fractio	ns -		attendan	ce statistics we	ek.
				Directi	on		Multiplicat	ion &	Recap					
							Division- R	есар						

Autumn one					
Place value - Starter 10mins	Counting Week 1	Partitioning Week 2	Counting Week 3	Counting Week 4	
	Count from 0 in multiples 50 and 100. Review counting in 5s and 10s. Discuss how multiples of 5, 10, 50 and 100 end in 0 or 5. Use counting sticks, hundred square and/or gattegno charts.	Partition numbers up to 1000 in a many different ways as possible. <b>56</b> = 50 + 6, 25 + 25 + 6, 50 + 3 + 3. Progress to apply the above skill t digit numbers.	Review counting in 3s and discuss the relationship between 3 and 6, double 3 is 6. Explore using that	Count in multiples of 7. Use counting sticks, hundred squares and/or gattegno charts to model counting in multiples of 7s.	
NCETM PD Materials			National Cu	Irriculum	
Week 1 to Week 4 Place Value	Reasoning and problem-solving questions to be		*Count in multiples of 6, 7, 9, 25 and 1000		
Number- Review of Place Value and	completed in this unit- Resources available on the		*Find 1000 more or less than a given number		
Column addition and subtraction (up	NCETM reasoning site		*Count backwards through zero to include negative numbers		
to 3- digits)			*Recognise the place value of e	each digit in a four-digit number	
Spine 1 – 1-20 Teaching point 3-4	Mastery assessment – deep understanding of		(thousands, hundreds, tens, and ones)		
Spine 1 – 1.21 Teaching point 1-2	maths.10 questions of varied	d difficulties to use at the	*Order and compare numbers beyond 1000		
	end of the unit.		*Identify, represent and estima	te numbers using different	
Number-Place Value			representations		
Spine 1 – 1.22 – Teaching point 3	NCETM- ready to progress year 4- Slide 2 – 4 & 16		*Round any number to the nearest 10, 100 or 1000		
ordering			*Solve number and practical problems that involve all the		
- Teaching point 4			above and with increasingly larg	ge positive numbers	
rounding					

Year 4- Overview					
STOP at Teaching point 4	Stem sentences to be in books. Use ping pong ef response for recalling m	fect with children & choral			
	Additional resources are	available on White Rose			
Week 5 Addition & Subtraction-	Partitioning Week 5	Adjust to subtract Week 6	Compensate to subtract Week 7		
Starter 10mins	Partition numbers up to four digits in as many different ways as possible. 56 = 50 + 6, 25 + 25 + 6, 50 + 3 + 3 Progress to apply the above skill to 3 and 4 digit numbers.	Use number line to add on to subtract. Adding up to nearest tens. 87-25 = 2587 Progress to apply the above skill to 4 digit numbers.	35 - 18 = ?         Add two to 18 to make 20 (friendly number)         35 - 20 = 15         Then add 2 back on         15+2=17         Progress to apply the above skill to 3 and 4 digit numbers.		
Week 5 Addition & SubtractionNumber-Addition and SubtractionSpine 1 – 1.20 starting point Teachingpoint 5Spine 1 – 1.21 Revisit if needed, writtenmethodsSpine 1 – 1.22 Teaching point 3 add,subtract, 10's, 100's 1000's1.22 Teaching point 5 and 6,addition 3 digit & 4-digit additionSpine 1 – 1.27 Negative numbersteaching point 1	Reasoning and problem-solving questions to be completed in this unit- check out NCETM reasoning siteMastery assessment – deep understanding of maths.12 questions of varied difficulties to use at the end of the unit.Stem sentences to be included & recorded in books. Use ping pong effect with children & choral response for recalling maths strategy.Additional resources are available on White Rose.		*Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate *Estimate and use inverse operations to check answers to a calculation *Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.		
Week 8 Measures	Number bonds to add Week 8				
Starter – 10mins	Use number bonds to add mentally.				
	13 + 7 = ? 3+7 = 10 so 10 + 10 = 20				
	23 + 7 = 3 +7 = 10, so 10 +20 = 30				

	Progress to apply the above skill to	o 3 digit number and 4 digit numbers			
Week 8 Measures Length & Perimeter Spine 2 – 2.16 Teaching points 1&2 (recap from year 3) teaching point 3 Multiplicative contexts; are & perimeter	Reasoning and problem completed in this unit- NCETM reasoning site Mastery assessment – c	n-solving questions to be resources available on the deep understanding of ried difficulties to use at the	<ul> <li>* Convert between different units of measure [for example, kilometre to metre, hour to minute]</li> <li>* Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>* Estimate, compare and calculate different measures.</li> </ul>		
	Stem sentences to be included & recorded in books. Use ping pong effect with children & choral response for recalling maths strategy Additional resources available on White Rose.				
Week 9 Multiple & Division	X 10, 100 and 1000 mentally.	Dividing mentally: Week 10	Multiplication and Division Week 11	Dividing by 4. Week 12	
Starter 10 mins	Week 9 Children need to understand that the answer increases in multiplication. The Dienes and the 1, 10, 100, 1000 show visually what happens as the digits move left.	Use place value, known and derived facts to divide mentally, including: dividing by 1.	Continue to multiply and divide by 10, 100 and 1000 mentally in preparation for converting measures later in the year.	Encourage children to halve the number and halve again when dividing by 4. Model this by cutting a 2D shape in half, then halving it again to model quarters.	
Week 9 Multiple & Division	Reasoning and problem-solving questions to be		*Recall multiplication and division facts for multiplication		
Number- Multiply & Division	completed in this unit- additional resources		tables up to 12 × 12		
Spine 2 – 2.6 Teaching point 5 (for x * 0 & 1) Spine 2- 2.8 (6x & 9x) Spine 2- 2.9 (7x) Spine 2- 2.13 (x * 10 &100) Spine 2 -2.11 (11x,12x)	<ul> <li>available on the NCETM reasoning site</li> <li>Mastery assessment – deep understanding of maths. 8 questions of varied difficulties to use at the end of the unit.</li> <li>NCETM- ready to progress year 4- Slide 8 – 15</li> </ul>		<ul> <li>*Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>*Recognise and use factor pairs and commutativity in mental calculations</li> <li>*Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>*Solve problems involving multiplying and adding, including</li> </ul>		
	Stem sentences to be in	ncluded & recorded in	using the distributive law to multiply two-digit numbers by one		
		ffect with children & choral	digit, integer scaling problems and harder correspondence		
	response for recalling maths strategy.		problems such as n objects are connected to m objects		

	Additional resources available on White Rose	
Week 14 Consolidate		
Week 14- Starter 10 mins		
Spring		
Week 1- Measure		
Starter 10 mins		
Week 1 – Measure	Reasoning and problem-solving questions to be	*Find the area of rectilinear shapes by counting squares
<mark>Measure:</mark> Area	completed in this unit- resources available on the	
Spine 2- 2.16 Teaching points 4-6;	NCETM reasoning site	
Multiplicative contexts: area &	Stem sentences to be included & recorded in	
perimeter 1	books.	
Indian Man Video		
	Use ping pong effect with children & choral	
	response for recalling maths strategy.	
Week 3- Number Fractions		
Starter 10 mins		
Week 3- Number Fractions	Reasoning and problem-solving questions to be	*Recognise and show, using diagrams, families of common
Spine 3-3.5 Teaching points 1-6;	completed in this unit- resources available on the	equivalent fractions
working across one whole;	NCETM reasoning site	*Count up and down in hundredths; recognise that hundredths
improper fractions & mixed	Mostowy apparement doop understanding of	arise when dividing an object by one hundred and dividing tenths by ten
numbers	Mastery assessment – deep understanding of maths. 12 questions of varied difficulties to use at	*Solve problems involving increasingly harder fractions to
	the end of the unit.	calculate quantities, and fractions to divide quantities,
Spine 3- 3.7 Teaching points 1-2;		including non-unit fractions where the answer is a whole
finding equivalent fractions &	NCETM- ready to progress year 4- Slide 17- 20	number
simplifying fractions		*Add and subtract fractions with the same denominator
	Stem sentences to be included & recorded in books.	
	Use ping pong effect with children & choral	
	response for recalling maths strategy	

Week 7- Number Decimals		
Starter 10 mins		
Week 7- Number Decimals Spine 1 – 1.23 Teaching points 1-6; Composition & calculation: tenths Spine 1 – 1.24 Teaching points 1-7; Composition & calculation; hundredths & thousandths	Reasoning and problem-solving questions to be completed in this unit- check out NCETM reasoning site Mastery assessment – deep understanding of maths. 2 questions of varied difficulties to use at the end of the unit.	*Recognise and write decimal equivalents of any number of tenths or hundredths *Recognise and write decimal equivalents to ¼,1/2, 3/4 *Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths *Round decimals with one decimal place to the nearest whole number
	Stem sentences to be included & recorded in books. Use ping pong effect with children & choral response for recalling maths strategy	*Compare numbers with the same number of decimal places up to two decimal places *Solve simple measure and money problems involving fractions and decimals to two decimal places
Week 11- Geometry		
Starter 10 mins		
Week 11- Geometry: Properties of Shape Oak Academy- Maths Year 4; unit 25 - 2D Shape & Symmetry - lesson 11 – 15	Reasoning and problem-solving questions to be completed in this unit- resources available on the NCETM reasoning site Mastery assessment – deep understanding of maths. 4 questions of varied difficulties to use at the end of the unit.	*Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes *Identify acute and obtuse angles and compare and order angles up to two right angles by size *Identify lines of symmetry in 2-D shapes presented in different orientations *Complete a simple symmetric figure with respect to a specific
Split pin angle measure to make. Geoboards	NCETM - ready to progress year 4- Slide 25-26 Stem sentences to be included & recorded in books. Use ping pong effect with children & choral response for recalling maths strategy	line of symmetry.
Week 13		
Starter 10 mins		
Week 13 Consolidate		

Summer		
Week 1- Measure		
Starter 10 mins		
<b>Week 1- <mark>Measure</mark>: Time</b> Oak Academy- Maths Year 4; unit 28, 5 lessons	Reasoning and problem-solving questions to be completed in this unit- resources available on the NCETM reasoning site. Stem sentences to be included & recorded in books.	*Read, write and convert time between analogue and digital 12- and 24-hour clocks *Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
	Use ping pong effect with children & choral response for recalling maths strategy	
Week 3- Measure	response for recalling matrix strategy	
Starter 10 mins		
<b>Week 3- <mark>Measure</mark>: Money</b> Spine 1 – 1.25 Teaching points 1-5 Addition & Subtraction; Money	Reasoning and problem-solving questions to be completed in this unit- resources available on the NCETM reasoning site. Stem sentences to be included & recorded in books.	*Estimate, compare and calculate different measures, including money in pounds and pence * Solve simple money and measure problems involving fractions and decimals to two decimal places.
	Use ping pong effect with children & choral response for recalling maths strategy	
Week 4- Geometry		
Starter 10 mins		
Week 4- Geometry: Position & Direction Oak Academy- Maths Year 4; unit	Reasoning and problem-solving questions to be completed in this unit- resources available on the NCETM reasoning site	*Describe positions on a 2-D grid as coordinates in the first quadrant *Describe movements between positions as translations of a given unit to the left/right and up/down
26- Position & Direction; 5 lessons	Mastery assessment – deep understanding of maths. 2 questions of varied difficulties to use at the end of the unit.	*Plot specified points and draw sides to complete a given polygon
	NCETM- ready to progress year 4- Slide 21-22 & 25- 26	

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	Stem sentences to be included & recorded in books. Use ping pong effect with children & choral response for recalling maths strategy	
Week 6 Starter 10 mins		
Week 6- Statistics Attendance Data for whole school	Whole school attendance statistic	<ul> <li>*Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>*Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li> </ul>
Week 7- Addition & Subtraction		
Starter 10 mins		
Week 7- <mark>Number:</mark> Addition, Subtraction, Multiply & Division Recap		Notes and guidance (non-statutory) Pupils continue to practise both mental methods and columnar addition and subtraction with increasingly large numbers to aid fluency. Pupils continue to practise recalling and using multiplication tables and related division facts to aid fluency. Pupils practise mental methods and extend this to three-digit numbers to derive facts, (for example 600 $\div$ 3 = 200 can be derived from 2 x 3 = 6) Pupils practise to become fluent in the formal written method of short multiplication and short division with exact answers.
Week 9- Fractions Starter 10 mins		
Week 9- Number: Fractions Recap		Notes and guidance (non-statutory) Pupils should connect hundredths to tenths and place value and decimal measure. They extend the use of the number line to connect fractions, numbers and measures. Pupils understand the relation between non-unit fractions and multiplication and division of quantities, with particular emphasis on tenths and hundredths. Pupils continue to practise adding and subtracting fractions with the same denominator, to become fluent through a variety of increasingly complex problems beyond one whole.

Year 4- Overview				
Week 11 Starter 10 mins				
Starter 10 mins				
Week 11 Consolidate				