Week 2 3 5 7 10 12 11 count in multiples of 6, 7, 9, 25 count backwards through zero to count in multiples of 6, 7, 9, 25 and <u>10, 100</u> and 1000 4N1 and 10, 100 and 1000 4N1 include negative numbers and - relate counting in 6s to counting in 60s ready for converting units order and compare numbers relate to their use in real life beyond 1000 4N2a find 10, 100 and 1000 more or order and compare numbers less than a given number 4N2b including negative numbers recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) 4N3a read Roman numerals to 100 (I to C) 4N3b **Number and** know that over time, the numeral place value system changed to include the concept of zero and place value compare number systems from history with ours identify, represent and estimate numbers using different representations and concrete resources including measures and when comparing number systems 4N4a round any number to the nearest 10, 100 or 1000 and connect to estimation when calculating or when using measuring instruments 4N4b solve number and practical problems that involve all of the above and with increasingly large positive numbers 4N6 derive, use and be increasingly fluent when recalling multiplication and division facts for multiplication tables up to 12 x 12 (exploring the 6 and 9x tables and relating to the 3 x table) 4C6a **Multiplication** represent the multiplication tables using concrete resources and pictorial representations and division identify patterns and relationships within times tables (including rules for divisibility) use known facts to derive new facts and inverse facts add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate using concrete resources to represent and understanding of place value 4C2 estimate and use inverse operations to check answers to a calculation 4C3 add and subtract mentally using concrete resources and pictorial representations to support Addition and understanding and to include: subtraction know when and how to use jottings to support conservation of number calculate what must be added to any three digit number to make the next multiple of 100 add and subtract a pair of 2 digit numbers e.g. 38 + 86 add and subtract 3 digit multiples of 10 e.g. 620 - 380 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why (within known number competency) 4C4 draw 2-d shapes with increasing accuracy compare, identify and classify geometric shapes, including quadrilaterals (rhombus, parallelogram, trapezium and rectangle) and triangles (isosceles, scalene and equilateral), based on their properties and sizes 4G2a identify lines of symmetry in 2-D shapes presented in different orientations (and in a variety of contexts) 4G2b complete a simple symmetric figure with respect to a specific line of symmetry Geometry (including where the line of symmetry does not dissect the original shape) 4G2c identify acute and obtuse angles and compare and order angles up to two right angles by size (not required to use a protractor) 4G4 use understanding of angle and lengths of side to decide whether 2d shapes are regular or irregular draw and construct symmetric patterns and shapes in different orientations and using different media measure and calculate the perimeter of a rectilinear figure Measurement (including squares) in centimetres and metres 4M7a interpret and present discrete data using appropriate graphical methods, including bar charts 4S1 **Statistics** solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs **4S2**

Week 5 12 11 count up and down in hundredths and tenths including bridging through tenths and ones 4F1 - continue to relate counting in tenths to counting in known multiples e.g. relate counting in multiples of 6 to counting in multiples of 0.6 recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten and relate to pounds and pence and other decimal units of measurement 4F1 - link to place value **Fractions** - relate decimal notation to division of a whole number by ten and later 100 compare and order unit fractions and fractions with the same denominators 3F3 (continued from Y3) (including recognise the place value of each digit to two decimal places decimals) add and subtract fractions with the same denominator i.e. where the denominator is 10 or 100 4F4 recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{4}$; $\frac{1}{4}$ and relate to money and decimal measures 4F6a recognise and write decimal equivalents of any number of tenths or hundredths 4F6b compare numbers with the same number of decimal places up to two decimal places 4F8 - order decimals with up to 2 decimal places - represent numbers with up to two decimal places in several ways including on a number line round decimals with one decimal place to the nearest whole number and relate to rounding whole numbers, money and decimal measures 4F7 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 4F9 solve simple measure and money problems involving fractions and decimals to two decimal places 4F10b derive, use and be increasingly fluent when recalling multiplication and division facts for multiplication tables (6 x, 11x and 12x) 4C6a - relate 12x, 6x, 3x and 4x tables identifying common multiples and making links to doubling Multiplication relate 12x and 6x tables to chronology e.g. count in multiples of 60 and division 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 4C6b - understand that multiplication can be done in any order when multiplying three numbers e.g. $2 \times 3 \times 4 = 3 \times 4 \times 2 = 4 \times 3 \times 2 = 24$ recognise and use factor pairs and commutativity in mental calculations 4C6c - understand that multiplication is commutative but that division is not solve problems involving multiplying and adding, including using integer scaling problems and harder correspondence problems such as n objects are connected to m objects 4C8 add and subtract numbers with up to 4 digits (including decimal tenths add and subtract numbers and hundredths) using the formal written methods of columnar addition mentally using concrete and subtraction where appropriate 4C2 resources and pictorial representations to support - relate this to money and measures using decimal notation understanding and to include; using concrete resources and pictorial representations to partitioning, counting on support understanding and communication and back in minutes, and estimate and use inverse operations to check answers to a calculation **Addition and** bridging through 60when subtraction calculating time add and subtract numbers mentally using concrete resources and pictorial representations to support understanding and to include; know when and how to use jottings to support conservation of number calculate what must be added to any three digit number to make the next multiple of 100 and then any 4 digit number to make the next multiple of 1000 e.g. $4087 + \square \square \square = 5000$ - add and subtract a pair of 2 digit numbers e.g. 38 + 86 - add and subtract 3 digit multiples of 10 e.g. 620 - 380 calculate what must be added to a decimal with units and tenths and then a unit with tenths and hundredths to make the next whole number e.g. 7.2 + $\square\square$ = 8 and relate to money, decimal measures and knowledge of place value solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why 4C4 convert between different units of measure [e.g. kilometre read, write and convert time to metre; hour to minute] 4M5 between analogue and digital 12 and 24-hour clocks and recall - relate to understanding of place value with increasing fluency use decimal notation when recording money and 4M4a/b understand how money looks on a calculator solve problems involving display Measurement converting from hours to - record metric measures using decimal notation minutes; minutes to seconds; recognise decimal equivalents to 1/4; 1/2; 3/4 and years to months; weeks to days relate to measure 4M4c estimate, compare and calculate different measures, including money in pounds and pence 4M1/2/9 explore and use these strategies in a range of contexts including those that involve practical uses of measure measure with increasing accuracy and record using decimal notation interpret and present discrete and continuous data using appropriate graphical methods - time graphs 4S1 use cross curricular links through subjects such as science, geography, history and PE when **Statistics** appropriate begin to understand the difference between discrete and continuous data solve comparison, sum and difference problems using information presented in tables and other graphs (e.g. graphs and tables relating to timed events) 4S2

	1 2		E	c	7	0	0	40	44	40
Week	draw 2-D shapes w	ith increasing accuracy	5	6	1	8	9	10	11	12
Coometry	 begin to identify sir packets which are of 	mple nets 3-D shapes e.g. cubes or cuboids	unfold							
	compare and classify	y geometric shapes, includir angles, based on their prop	•							
Geometry	sizes 4G2a	s between positions as trans								
	given unit to the left/i	right and up/down 4P2								
	quadrant 4P3a	n a 2-D grid as coordinates i								
	 plot specified points polygon 4P3b 	and draw sides to complete	a given							
		metry in 2-D shapes present (and in a variety of contexts								
		ymmetric figure with respect netry (including where the lin								
		dissect the original shape) 4 • recall multiplication are	lG2c	ete for multipli	cation tables i	in to 12 × 12	4C62			
		- reason and gene	eralise throu	gh investigat	ion rules for	divisibility f	or multiplicat			
		 use place value, know multiplying together th 			tiply and divid	e mentally, in	cluding: multi	plying by 0 an	d 1; dividing l	by 1;
		derive new factsunderstand whe			_					s e.a. 240
		÷□= 3 - use known strat		•		•		_	-	
		= 144 ensuring t • recognise and use fac	he correct us	se of bracket	s			00 X 4 = (00 Z	(+) 1 (0 X +)	- 120 1 24
		- use understandin	•					4 x 20 = 4 x 3	x 20 = 240 (8	associative
Multiplication and division		law)multiply two-digit and						ut using co	ncrete resou	rces and
		pictorial representat 1. TO x O no exch	ange		ding and cor	nmunication	4C7			
		 TO x O extra dig TO x O with exc 								
		4. HTO x O with no 5. HTO x O with ex		nes to tens						
		6. HTO x O with ex				o hundreds				
		 divide two-digit and the divide t			e-digit number	where the a	nswer is exact	t i.e. no remai	nders	
		2. TO ÷ O with exc 3. HTO ÷ O no exc	hange no re	mainder						
		 4. HTO ÷ O with ex 5. HTO ÷ O with ex 	xchange of h	undreds into						
		6. HTO ÷ O with ex	xchange of h	undreds into	tens and ten					
		solve problems involv integer scaling proble	ing multiplyin	g and adding,	including usir	ng the distribu				
		sweets for 12 people of choices of a meal of	e cost? and h	narder corresp	ondence prob	olems such a	s n objects are	e connected to		
		or choices of a mear	order as	nd compare f	ractions of q	uantities an	d shape in pr	actical conte		
			- use	concrete res			common equ resentation to			etween
			- use	tion families factors and	multiples to i	reçognise ed	quivalent frac	tions and sir	nplify where	
				ropriate (e.g. subtract fract			inator 4F4			
Fractions			includi - reca	_	actions with 1	the same de	nominator th	at total 1		
(including decimals)			- add	and subtrac	t pairs of frac		he same den		dging throug	h 1
			• round de		ne decimal pl		arest whole n	umber and rel	late to roundi	ng whole
			• find the		ng a one- or t	wo-digit num	ber by 10 and	100, identifyi	ng the value	of the digits
			• solve pr		ing increasing	ly harder frac	ctions to calcu			ns to divide
			•	~			answer is a v			ion facts
				ke connection ble or set of qu		ctions of a lei	ngth, of a shap	pe and as a re	presentation	of one
			solve sir4F10b	mple measure	and money p	roblems invo	lving fractions	and decimals	s to two decin	nal places
							area of rectilir		read, write convert to	
						arrays ir	n multiplication between diffe	7 4M7b	between	analogue tal 12 and
							e [e.g. kilomet		24-hour 4M4b	
Measurement						4M5	mple probler	ne	• solve pro	oblems g converting
						involvir	inple probler ig converting t units of me	between	from hou	
						kilomet	re to metre]		seconds	; years to weeks to
						including	e different mea g money in po		montns; days 4l	
						pence 4	F9			