Week	1	<mark>2</mark>	3	4	<mark>5</mark>	<mark>6</mark>	7	8	9	10	11	12
Number and place value												
Addition and subtraction	resou	problems add undo subt estir	and subtra a three-dig any pair of through ma a near doul recall sums of 10, 100 of recall doub e.g. 90 + 90 erstand that raction is n	all of the aboact numbers git number are two digit number are two digit numbles of tenders and different or 1000 cles and halve addition is contended as a contender to a c	mentally, inclind ones mbers including and through 1 16, 60 + 70 ces of pairs of s of multiples of commutative a not the same a alculation and	uding: g bridging 100 multiples of 10 to 100 nd that s 5-7 use						
Geometry				continue greater irregularies a perper lines a perper lines a form 2 - me incompleta angles than a	easuring sides of creasing accurations accurating include symmetrica. 3-D shapes usting materials; appes in different ations and description of a turn by right angles, or right angles, or right angles, or a turn are te turn; identicating angle are greater thright angle are greater thright angle are greater thright angle are creasing accurate the creasure of a turn and the creasure of a turn are the turn; identicating angle are greater thright angle are creasured.	and name a regular and and vertical arallel ar						
Measurement				 measu subtrace (no core and expense.g. 1mmessummess	and obtuse angure, compare, ct: lengths (m. nversion between 30cm) 3M1a/are the perime	add and /cm/mm) een units ed units /2a/9b tter of	 lengths (mass (kg) volume/o (no conversion use known in quantity or in 	nultiplication fa neasure is twic	BM1a/2a/9b b/9c 3M1c/2c/9d ts and expres acts for scali ce as long or	sed as mixed unit ng of measures five times as hig plication and divi	by integers (e.g gh)	g. a given
Multiplication and division							multiplication - recognise - connect - derive ru - understa - derive ne solve probled division, include	n tables 3C6 e and derive fac 2, 4 and 8 mu les for divisibili nd that multipl ew facts from g ms, including r uding positive ojects are conr	ctor pairs of radication to ty for 2, 5, 3, ication is con given facts (missing num integer scali	nultiples in known ables with doubling 4,8 and 10 x tables and divergence and divergence are grown as a problems, in any problems and objects (using far	n tables ng es vision is not ÷3 = 2 and 2=6 volving multipli d corresponden	5÷3) cation and ace problems
Fractions (including decimals)									 recogni of object small d recogni fraction denomi recogni fraction comparente 	viedge of multiplicates, find and write otts: unit fractions enominators 3F se and use fract and non-unit fronters 3F1c se and show, us with small denominators	e fractions of a and non-unit fractions as number actions with sm ing diagrams, cominators 3F2 fractions, and f	discrete set ractions with rs: unit nall equivalent



5 7 8 10 11 12 count up and down in tenths including bridging through 1s: - relate counting in tenths to counting in known multiples e.g. relate counting in multiples of 4 to counting in multiples of 0.4 3F1a recognise that tenths arise from dividing an **object** into 10 equal parts and in dividing one-digit numbers or quantities by 10 3F1a represent numbers with decimal tenths using concrete resources and pictorial representations **Fractions** (including partition numbers with one decimal place decimals) order and compare numbers with one decimal place round numbers with one decimal place to the nearest whole number relate decimal tenths to fractional tenths e.g. 1/10 = 0.1 relate decimal tenths to multiples of ten pence when working with money add and subtract fractions with the same denominator within one whole (for example, ${}^{5}/_{7} + {}^{1}/_{7} = {}^{6}/_{7}$) **3F4** add and subtract decimal tenths solve problems that involve applying knowledge of fractions work so far add and subtract numbers mentally, including: a three-digit number and ones including partitioning the ones number when bridging through multiples of 10 and 100 a three-digit number and tens and relate to counting on and back in tens from any number bridging through multiples of 100 a three-digit number and hundreds calculate what must be added to any 3 digit number to make Addition and subtraction the next multiple of 100 e.g. 521 + \square \square = 600 using knowledge of complements to 100 from Y2 3C1 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction using concrete resources and understanding of place value 1. no exchange 2. extra (+) or fewer (-) digits in the answer 3. exchanging units to tens 4. exchanging tens to hundreds 5. exchanging units to tens and tens to hundreds 3C2 estimate the answer to a calculation and use rounding to 10 and 100 and inverse operations to check answers 3C3 solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction 3C4 add and subtract amounts of money to give change, using both tell and write the time from an analogue clock, including using Roman numerals £ and p in practical contexts (they record £ and p separately Measurement and not as decimals which is introduced formally in Y4) 3M9a from I to XII, and 12-hour and 24-hour clocks 3M4a/b/c develop fluency when recognising the value of coins and notes estimate and read time with increasing accuracy to the nearest minute 3M4d record and compare time in terms of seconds, minutes and hours 3M4d use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year 3M4e compare durations of events [e.g. to calculate the time taken by particular events or tasksl 3M4f recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables and relate counting in multiples of e.g. 4 to counting in multiples of 40, 400 and 0.4 3C6 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental methods supported by concrete **Multiplication** resources and pictorial representations 3C7 and division - use commutativity and associativity (for example, 2 x 3 \times 5 = 2 \times 5 \times 3 = 10 \times 3 = 30) and multiplication and division facts (for example, using $3 \times 2 = 6$, $6 \div 3 = 2$ and $2 = 6 \div 3$) to derive related facts (30 × 2 = 60, 60 ÷ 3 = 20 and $20 = 60 \div 3$) use partitioning to multiply a two-digit number by a one digit number e.g. $23 \times 4 = 20 \times 4 + 3 \times 4 = 92$ solve problems, including missing number problems, involving multiplication and division with known facts, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects e.g. 3 hats and 4 coats, how many different outfits?; 12 sweets shared equally between 4 children; 4 cakes shared equally between 8 children 3C8 Link to comparing chronology and through cross curricular activities and a variety of contexts interpret and present data using bar charts, pictograms and tables using simple scales (for example, 2, 5, 10 units per cm) 3S1 **Statistics** solve one-step and two-step questions[for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables 3S2



Week 2 5 6 7 8 9 10 11 12 1 3 count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 **3F1a** recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators 3F1b **Fractions** recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators 3F1c (including recognise and show, using diagrams and concrete resources, equivalent fractions with small denominators 3F2 decimals) compare and order unit fractions, and fractions with the same denominators on a number line including beyond 0-1 and relate this to measure **3F3** add and subtract fractions with the same denominator within one whole (for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$) 3F4 solve problems that involve all of the above **3F10** measure, compare, add and subtract: lengths add and subtract (m/cm/mm); mass (kg/g); volume/capacity (l/ml) amounts of money 3M1abc/3M2abc/3M9bcd to give change, using both £ and p reading scales that increase in simple rates in practical contexts such as 2s, 5s, 10s, 50s and 100s Measurement (they record £ and p derive and begin to recall simple separately and not equivalence of units that relate to work on as decimals which fractions 1m = 100cm, $\frac{1}{2}m = 50cm$, $\frac{1}{10m}$ is introduced formally in Y4) - compare and order measures using mixed 3M9a units e.g. 1kg and 200g develop fluency measure the perimeter of simple 2-D shapes when recognising the value of coins and with increasing accuracy and draw rectilinear notes shapes with given perimeters in centimetres continue to identify and name a greater repertoire of regular and irregular shapes draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Geometry 3G3ab draw sides of 2D shapes and construct 3D shapes using measuring tools with increasing accuracy in centimetres in a variety of contexts identify horizontal and vertical lines and pairs of perpendicular and parallel lines 3G2 describe shapes using accurate language recognise that angles are a property of shape or a description of a turn 3G4a identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle and classify acute and obtuse angles 3G4b read and record the vocabulary of position, direction and movement using the four points of a compass to describe movement around a grid add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds 3C1 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction 3C2 1. no exchange 2. extra (+) or fewer (-) digits in the answer **Addition and** 3. exchanging units to tens subtraction 4. exchanging tens to hundreds 5. exchanging units to tens and tens to hundreds estimate the answer to a calculation and use inverse operations to check answers 3C3 solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction 3C4 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 3C6 multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written **Multiplication** - using concrete resources to introduce each stage and and division relating to mental methods taught 1. TO x O no exchange 2. TO x O extra digit in the answer 3. TO x O with exchange of ones into tens 4. TO ÷ O no exchange no remainder 5. TO ÷ O with exchange no remainder solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects 3C8

