Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	**Number: Place Value with decimal emphasis.** • Count in multiples of 6, 7, 9, 25 and 1000 • Count backwards through zero to include negative numbers • Count up and down in hundredths • *Read and write numbers to at least 10 000* • *Read and write numbers with up to two decimal places* • Recognise the place value of each digit in a four-digit number • *Identify the value of each digit to two decimal places* • *Partition numbers in different ways (e.g. 2.3 = 2+0.3 & 1+1.3)* • Identify, represent and estimate numbers using different representations *(including the number line)* • Order and compare numbers beyond 1000 • *Order and* compare numbers with the same number of decimal places up to two decimal places • Find *0.1, 1, 10, 100 or* 1000 more or less than a given number • Round any number to the nearest 10, 100 or 1000 • Round decimals (one decimal place) to the nearest whole number • Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer • *Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps* • Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value • Solve number and practical problems that involve all of the above and with increasingly large positive numbers • *Write amounts of money using decimal notation* • *Recognise that one hundred 1p coins equal £1 and that each coin is $\frac{1}{100}$ of £1*								**Number: Addition and Subtraction.** • *Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)* • *Select a mental strategy appropriate for the numbers involved in the calculation* • *Recall and use addition and subtraction facts for 100* • *Recall and use +/- facts for multiples of 100 totalling 1000* • *Derive and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place)* • *Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place* • Add and subtract numbers with up to 4 digits *and decimals with one decimal place* using the formal written methods of columnar addition and subtraction where appropriate • Estimate; 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 • *Solve addition and subtraction problems involving missing numbers and money*				**Measurement** • Estimate, compare and calculate different measures, including money in pounds and pence • *Order temperatures including those below 0°C* • Convert between different units of measure [e.g. kilometre to metre; hour to minute]	

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Spring	Number: Multiplication and Division.						Number: Fractions.							

Number: Multiplication and Division.
- *Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)*
- Recognise and use factor pairs and commutativity in mental calculations
- Recall multiplication and division facts for multiplication tables up to 12 × 12
- *Use partitioning to double or halve any number, including decimals to one decimal place*
- 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
- Multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- *Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context*
- *Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy*

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, *division (including interpreting remainders),* integer scaling problems and harder correspondence problems such as n objects are connected to m objects

Number: Fractions.
- *Understand that a fraction is one whole number divided by another (e.g. $\frac{3}{4}$ can be interpreted as 3 ÷ 4)*
- *Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators*
- Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
- *Count on and back in steps of unit fractions*
- *Compare and order unit fractions and fractions with the same denominators (including on a number line)*
- Recognise and show, using diagrams, families of common equivalent fractions
- Recognise and write decimal equivalents of any number of tenths or hundredths
- Recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$
- Add and subtract fractions with the same denominator *(using diagrams)*
- Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Solve simple measure and money problems involving fractions and decimals to two decimal places

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Summer	**Measure: Area and Perimeter** • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres • *Know area is a measure of surface within a given boundary* • Find the area of rectilinear shapes by counting squares			**Statistics- Graphs**. • *Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties and sizes* • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs			**Time.** • 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		**Geometry-Angles Position and direction.** • Describe positions on a 2-D grid as coordinates in the first quadrant • Plot specified points and draw sides to complete a given polygon • Describe movements between positions as translations of a given unit to the left/right and up/down • Identify acute and obtuse angles and compare and order angles up to two right angles by size •		**Geometry: Shape and Symmetry** • Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes • Identify lines of symmetry in 2-D shapes presented in different orientations • Complete a simple symmetric figure with respect to a specific line of symmetry • *Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines*			