



Medium-term planning Autumn 1

YEAR 5

W	Topic	Curriculum objective
1	Place value to 1,000,000	<ul style="list-style-type: none"> To read, write, order and compare numbers at least to 1,000,000 and determine the value of each digit. To count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.
2	Mental addition and subtraction	<ul style="list-style-type: none"> To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction). To add and subtract numbers mentally with increasingly large numbers. To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
3	Factors of numbers and prime numbers	<ul style="list-style-type: none"> To identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. To solve problems involving multiplication and division where larger numbers are used by decomposing them into factors. To know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. To establish whether a number up to 100 is prime and recall prime numbers up to 19.
4	Using multiplication and division facts	<ul style="list-style-type: none"> To multiply and divide numbers mentally drawing upon known facts. To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.
5	Angles	<ul style="list-style-type: none"> To know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles To draw given angles, and measure them in degrees ($^{\circ}$). To identify: <ul style="list-style-type: none"> angles at a point and one whole turn (total 360°) angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90°.
6	Length, perimeter and area	<ul style="list-style-type: none"> To convert between different units of measure (for example, kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre). To understand and use equivalences between metric units and common imperial units such as inches, pounds and pints. To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling. To measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes.
Assess and review		<ul style="list-style-type: none"> To assess the half-term's work.