



Maths Vocabulary and Concepts Consistency Document

+ / -	X / ÷	½ . % £	Geometry	Measures	Statistics
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RECEPTION

<p>Numbers to 0 - 21 with words & pictorial representation Add Take away Equals How many? Altogether</p>	<p><u>X Language</u> Sharing Groups of <u>÷ Visual</u> Hoops Compare bears etc. <u>÷ Language</u> Sharing Grouping</p>	<p>Number line to 0-21 with pictorial representation Money with pictorial representation Coin with pictorial representation</p>	<p><u>Position</u> On, under, above, behind, in front of, in, next to/beside, between <u>2D Shapes</u> Circle, triangle, rectangle, square <u>3D Shapes</u> Cube, pyramid, cuboid, cone, sphere, cylinder <u>Properties</u> Sides, corners, faces</p>	<p><u>Length</u> Longer, shorter e.g. Topic working wall <u>Size</u> Bigger, smaller <u>Weight</u> Heavier, lighter <u>Capacity</u> Empty, full, half full Days of the week, months of the year, seasons Before, after</p>	
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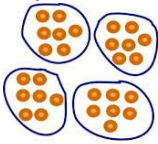
Times Tables



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YEAR 1

<p>Numbers 0 to 21 with words Add + Take away - Equals = Find the difference Subtract Count back Count on Altogether Sum Total Plus</p>	<p>X Visual Repeated addition Arrays Commutativity Pictorial Representation X Language Double Halve Equally Lots of Groups of Multiply by Times by ÷ Visual Repeated subtraction  Groups ÷ Language Double Halve Equally Sharing Groups of Grouping Lots of Divide by</p>	<p>Content Numicon to show value/worth of each of the coins Identify coins Adding, subtracting using money £/p. Combining amount of coins, equivalent values Solving problem involving change Environment/Displays Numicon pan balance showing equivalent value e.g. 2 tens/4 fives Ideas for resources: magnetic fraction pieces. Hundred square pictorial representation Money with pictorial representation Pictorial representation of simple fractions</p>	<p>Position As Reception + shapes rotated for progression. 2D Shapes As Reception + shapes rotated for progression. 3D Shapes As Reception + shapes rotated for progression. Properties Vertices, edges, faces Direction left, right, half turn, quarter turn, ¾ turn</p>	<p>Measures Long, short centimetres Heavy, light Clock Hours, minutes, seconds, O'clock, half past, quarter past Time Yesterday, today, tomorrow, morning, afternoon, evening – within timetables etc. Days of the week/months of the year</p>	
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YEAR 2

<p>Numbers to 100 with words (possibly organised with 10s and 1s) – Partitioning Tens Ones Equals Addition Add Plus More than Count on Altogether e.g. total sum (twinkl flower) Bridging ten Subtraction Take away Subtract Minus Count back Fewer Less than Exchange Find the difference</p>	<p>X Visual Repeated addition Arrays Scaling Partitioning Multiplication X Language Once, twice, third, fourth etc. Inverse operation Partitioning Factors Repeated addition Multiples Multiplication ÷ Visual Repeated subtraction Groups – blank numbers Partitioning ÷ Language Once, twice, third, fourth Inverse operation Partitioning Factors Division Fraction of Half</p>	<p>Recognise/name 1/3, 1/4, 2/3, ¾ of a length halves, quarters – recognising equivalent of 2/4 and 1/2 Greater > < signs £ p – pictures of notes, symbols and values Ordered fractions and simple equivalents 0 ¼ ⅓ ½ ⅔ ¾ 1</p>	<p>2D & 3D Shapes Irregular shapes 2D faces within 3D shapes Properties language Edges, vertices, faces Symmetry Vertical, horizontal Position/Direction Right angle, ¼ turns, ¾ turns, clockwise, anticlockwise</p>	<p>Clock Hours, minutes, seconds O'clock, half past, quarter past, quarter to e.g. intervals of 5 minutes Comparison of measure m / cm l / ml g / kg } in context < > - crocodiles</p>	
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YEAR 3

<p>Numbers to 1000 in words (e.g. the ones – tens, hundreds, thousands) Partitioning Three digit numbers Addition Add Plus More than Count on Altogether e.g. total sum (twinkl flower) Bridging ten Hundreds Tens Ones Calculation Subtraction Take away Subtract Minus Count back Fewer Less than Exchange Find the difference Inverse Estimate, check Calculation</p>	<p>X Visual Grid Method Jottings X Language Multiples Jotting Partitioning Grid Columns Product Record Scaling up ÷ Visual Chunking Jottings ÷ Language Divisor Multiples Chunking Strategies Divisible by How many Record Quotient</p>	<p>Targets for Curriculum Adding £ and p in context 1 10 metre/number stick Compare (order with fractions) Equivalent → fractions Same denominator → + and – fractions with the same denominator – don't add the denominator Adding money Adding Fractions $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$ Equivalent Fractions x2 $\frac{2}{3} = \frac{4}{6}$</p>	<p>Examples Parallel, perpendicular, right angle – turning 90°- $\frac{1}{4}$ - $\frac{3}{4}$, greater than, less than, horizontal, vertical, equilateral triangle, quadrilaterals</p>	<p>Examples Perimeter mm / cm / m kg / g ml / l Roman numerals – 1-12 Analogue, digital- 24 hour clock am/pm Morning, afternoon, noon, midnight Leap year</p>	<p>Interpret Construct Pictogram Tally Chart Block Diagram Table Category Quantity Total Compare Data</p>
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YEAR 4

<p>Increase/decrease 1000 more 1000 less Estimate Inverse Calculation Four digit number Thousands Hundreds Tens and ones Negative numbers Rounding Round any number to the nearest 10, 100, or 1000</p>	<p>X Visual Short multiplication Expanded method Compact method X Language Expanded Compact Columns Place value Estimate Factors Scaling up ÷ Visual Chunking groups Remainder ÷ Language Left over Columns Workings Chunks Multiples Remainder Estimate</p>	<p>Targets for Curriculum Equivalent of 1/2, 1/4, 1/3 $\frac{1}{100}$ Counting in $\frac{1}{100}$ Fractions of length, shapes and objects Decimals and fractions ÷1 digit by 10 Comparing 2dp number £ and p $\frac{1}{4} = 0.25$ $\frac{1}{2} = 0.5$ $2.4 \times 10 = 24$ $39 \div 10 = 3.9$</p>	<p>Examples Quadrilaterals Triangles – equilateral, isosceles, scalene, right-angled Translation – left, right Acute, obtuse angles Co-ordinates, quadrant (1st) Symmetry Reflection, mirror line, axis, rotation Polygon</p>	<p>Converting Hour to minute km to m e.g. real life display Perimeter area Analogue – 12 hour Digital – 24 hour e.g. clocks to compare</p>	<p>Discrete Continuous Graphical Bar Chart Time Graph Comparison Sum Difference Table Pictogram</p>
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YEAR 5 & 6

<p>Inverse Estimate Check Formal written method use rounding to check answers Rounding Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000</p>	<p>X Language Long multiplication ÷ Visual Chunking with multiples Long division ÷ Language Quotient Check using Inverse Factors Square numbers Cube numbers Prime numbers Prime factors Composite numbers</p>	<p>Targets for Curriculum Order fractions with same denominator Compare and add their decimal equivalent of a 1/5 and 1/1000s Fractions to decimals Multiples and factors Mixed numbers Dividing by 1000 to 3dp Multiply fractions Subtract fractions with different denominators % of quantities % meaning and as fractions rounding to whole numbers</p>	<p>Cuboid Cube Degrees Acute Obtuse Reflex Regular Irregular Polygon Whole turn Quarter turn Half Turn Quadrant coordinates Translate</p>	<p>Convert Kilometre Centimetre Millimetre Gram Kilogram Litre Millilitre Inches Pints Pounds Imperial Metric Composite Rectilinear Standard units Scaling Convert miles into Km Formulae – area Parallelograms Triangles Cubic units Dissection Negative integer Compound Radius Diameter</p>	<p>Line Graph Timetable Coordinates on time graphs Pie Charts Line graphs Interpret data Mean average Data sets – connectivity of concepts</p>
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