

Meltham Moor Primary School

Maths- Overview of when maths concepts are introduced (new learning takes place)

Year	1	2	3	4	5	6
Place Value	Numbers to 100		Numbers to 1000	Counting through zero Roman numerals Rounding	Numbers to 1000000	Numbers to 10000000
Addition and subtraction	+ - = signs Number bonds to 20	Commutativity Inverse operations Add 3 single digits Adding 2 digits to 2 digits Start to show calculations in columns in preparation	Formal written methods Calculating with 3 digit numbers	Calculating with 4 digit numbers	Multi step problems	
Multiplication and division	Doubling and sharing small quantities	Count in 2s, 5s, 10s Odd and even X and ÷ signs	3, 4 , 8 x	Recall all multiplication and division facts to 12 x 12 Multiply 2 or 3 digits by 1 digit	Prime numbers to 19 Square and cubed numbers Multiply 4 digits by 1 / 2 digits Remainders	Prime numbers to 30 Divide 3 / 4 digits by 2 digits
Fractions, decimals and percentages	$\frac{1}{2}$ $\frac{1}{4}$	$\frac{1}{3}$ $\frac{2}{4}$ $\frac{3}{4}$	$\frac{1}{10}$ Add and subtract fractions with same denominator	$\frac{1}{100}$ Decimals equivalence to tenths/hundredths	Equivalence Mixed numbers Improper fractions Conversions	Add and subtract any fractions Divide fractions by whole numbers

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				<p>Round decimals to 1 decimal place</p> <p>Divide whole numbers by 10</p>	<p>Add and subtract denominators that are multiples</p> <p>Multiply fractions</p> <p>Thousandths</p> <p>Round decimals to 2 dec place</p> <p>Recognise and use percentage</p>	<p>Multiply or divide by 10/100/1000</p>
<p>Measures- length, mass, capacity, temperature</p>	<p>Compare sizes Non standard units</p> <p>Introduce cm (brief)</p>	<p>Solidify standard units</p> <p>Temperature</p>	<p>Compare and add standard units</p> <p>Perimeter of regular 2d shapes</p>	<p>Covert between standard units</p> <p>Perimeter of rectilinear shapes</p> <p>Area with counting squares</p>	<p>Metric and imperial</p> <p>Perimeter of composite shapes</p> <p>Area with standard units m² cm²</p> <p>Estimate volume using cm³ blocks</p>	<p>Convert km to m</p> <p>Compare area and perimeter</p> <p>Area of parallelograms and triangles</p> <p>Calculate volume</p>
<p>Time</p>	<p>O'clock Half past</p>	<p>5 min intervals</p>	<p>1 min intervals</p> <p>Seconds</p> <p>Analogue 12 and 24hour</p>	<p>Analogue and digital</p>		

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Money	1p, 2p, 5p, 10p	£ and p signs Add money giving change	Problems involving adding and subtracting money			All 4 operations and money
Ratio					Begin to use multiplication to support introducing ratio in y6 (eg linking 4x and 8x)	Solve problems involving relative size of two quantities
Algebra				Use simple formula in context such as 2 (l + w) for perimeter		Use simple formula Linear sequences Two unknowns Two variables
Geometry	Name 3d shapes Describe direction and turns	Symmetry Identify 2d shapes within 3d shapes (faces) Edges faces and vertices. Rotation , clockwise, anticlockwise. $\frac{1}{2}$ $\frac{1}{4}$ turn	Angles as turns Right angles Horizontal, vertical, parallel and perpendicular lines	Properties of triangles and quadrilaterals Acute and obtuse angles Coordinates and translation (2 quadrants)	Missing lengths Reflex angles Draw angles (protractor) Conventional markings for parallel lines and angles reflections	Circles- radius, diameter, circumference (know diameter = 2x radius) Unknown angles Angles on straight lines, opposites, within triangles and around a point 4 quadrants
Statistics		Pictograms, tally, block diagrams		Discrete and continuous data (including time graphs)		Pie and line graphs Mean as average

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