

# The Mall - Maths Curriculum Overview - Summer Term

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	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10		Number	Shape & Space	Measure	Data	Algebra
Reception	Playing addition and subtraction games	<b>Subtraction</b> - activities linked to number bonds for 5 & 10 <b>Weight</b> - comparing weights of objects, estimating and measuring weights	Doubling	Sharing/Early Division	Reinforcing Doubling and Sharing	Money	Halving and Quartering Symmetry	Data Handling Time	Money Problem Solving	Directions Word Problem Solving	YR					
Year 1	<b>Measures/Linear Measurement</b> - to estimate, measure and compare lengths using NSU. Also, to be introduced to standard units and estimate, measure and compare lengths using centimetres and metres.	<b>Measures/Mass</b> - to estimate, measure and compare mass using a balance scale and using NSU. <b>Measures/Capacity</b> to estimate, measure and compare capacity using NSU.	<b>10x Table</b> - investigate the relationship between repeated addition and multiplication and learning the 10x table, also relate work to money. <b>2x Table</b> - investigate the relationship between repeated addition and multiplication and learning the 2x table and also relate work to money.	<b>5x Table</b> - investigate the relationship between repeated addition and multiplication and learning the 5x table and also relate work to money. <b>Multiplication Word Problems involving the 10x, 2x and 5x table</b>	<b>Working with arrays of 2x, 5x and 10x tables</b> - match/write the related multiplication equations to go with each array.	<b>Year 1 Assessments</b>	<b>Fractions</b> - To investigate how many different ways you can make $\frac{1}{2}$ and $\frac{1}{4}$ by shading a 2x2 / 2x4 grid and find halves and quarters of quantities (presented as sets of objects practically and pictorially). Discuss the relationship between doubling and halving a number of objects.	<b>Shape and Space</b> - to understand compass points (N, S, E, W) and understand and use grid referencing (coordinates) along with exploring language relating to position and direction.	<b>Introduce division by grouping (2's, 5's and 10's)</b>	<b>Working with arrays of 2x, 5x and 10x tables</b> - to understand multiplication and division are the inverse of each other; match/write the related multiplication and division equations to go with each array.	Y1					
						<b>Fractions</b> -To understand a fraction is part of a whole, that $\frac{1}{2}$ is 2 equal parts that make up the whole and $\frac{1}{4}$ is 4 equal					Y2	19	3	8	2	
Year 2	Time	Place Value	Addition and Subtraction (Money)	Shape	Multiplication and Division	Summer Exams	Measures	Multiplication and Division	Fractions	Data Handling	Y2	19	3	8	2	
Year 3	<b>Multiplication and Division</b> - Understand division as grouping (repeated subtraction) or sharing; Round up or down after division, depending on the context; Solve real life word problems involving money. MM: Practise adding and subtracting near multiples of 10.	<b>Word Problems</b> - Solve real life word problems involving money; Use known number facts and place value to carry out simple multiplication and division; Multiply a two-digit multiple of 10 up to 50 by 2, 3, 4, 5 or 10; Check with an equivalent calculation. MM: One and two step word problem solving using RUCSAC	<b>Fractions</b> - Compare familiar fractions: for example, know that on the number line one half lies between one quarter and three quarters; Estimate a simple fraction. MM: One and two step word problem solving using RUCSAC	<b>Data Handling</b> - Solve a given problem by organising and interpreting numerical data in simple lists, tables and graphs, for example, bar charts. MM: One and two step word problem solving using RUCSAC	<b>Measures</b> - Use a calendar; Read and understand timetables; Use the information given on timetables to work out journey times. MM: Learn the months in the right order and know how many days there are in each month.	<b>Exams</b>	<b>Data Handling</b> - Solve a given problem by organising and interpreting numerical data in venn diagrams	<b>Data Handling</b> - Solve a given problem by organising and interpreting numerical data in Carroll diagrams	<b>Place Value</b> - To read and write whole numbers to at least 10,000 in figures and words and know what each figure represents; Round numbers less than 1000 to the nearest 10 or 100;	<b>Place Value / Word Problems</b> - Solve real life word problems also involving money.	Y3	19	4	3	5	
Year 4	<b>Measurement &amp; Scale</b> - Reading scales; use different measuring instruments; mark numbers on a scale	<b>Area &amp; Perimeter</b> -Find area by: counting squares, simple shapes - squares and rectangles, <i>triangles and then compound shapes</i> ; Find perimeter of rectangles, basic formula, regular shapes, compound shapes, measuring and recording objects.	<b>Handling Data</b> - Interpret data - bar graphs, frequency tables, tally charts & pictograms; draw bar charts and line graphs	<b>Handling Data</b> - Interpret data - bar graphs, frequency tables, tally charts & pictograms; draw bar charts and line graphs	Summer Exams	<b>Transformations</b> - recap reflections by counting squares from the mirror line, both vertically and horizontally; Introduce rotational	<b>Sequences</b> - Recognise and extend number sequences formed by counting on/back from any number (6, 7, 8, 9) in steps of constant size, extend beyond zero when counting back; Solve number puzzles, recognise patterns, generalise and predict	<b>Fractions</b> - Consolidate equivalent fractions; Find quantities of fractions; Convert between mixed numbers and improper fractions; Add fractions with same denominator	<b>Data Handling</b> - Probability: Introduce the probability scale as a fraction or decimal. Recap the different words to describe probability and their associated outcomes. Investigate different outcomes (with dice/cards/coins) and show results in tables.	<b>Investigations</b> - Tangrams; Polyominoes; Mathsticks etc	Y4	18	4	6	2	1
	GP4 Ch22	GP4 Ch23	GP4 Ch24	GP4 Ch24												
Year 5	<b>Fractions of Quantities</b> - finding fractions of quantities; looking at remainders; more than one part of a whole; writing one quantity as a fraction of another quantity	<b>Percentages</b> - Find a quantity as a percentage of another; Know how to calculate 50%, 25% and 75% of a quantity; Find 10% of any number and use this to find multiples of 10%	<b>Long multiplication</b> - informal method using factors; informal method using partitioning; formal method; solving word problems	<b>Division</b> - using factors; solve word problems	Summer Exams	<b>Area &amp; Perimeter</b> - Recap the formula for area of a rectangle. Apply to real life (gardening or bedroom outline). Start looking at compound shapes and areas of triangles.	<b>3D Shape</b> -Recap properties of 3-D shapes. Name all 3-D shapes through their properties. Find and make their nets using polydron. Satrt to calculate Volume	<b>Data Handling</b> - Interpreting bar charts, frequency graphs and pictograms; Read and construct line graphs; Conversion Graphs, plot and interpret information from conversion graphs	<b>Time</b> - Read and write both analogue and digital times; Use and apply timings applied to days, hours and minutes; Knowing elapsed time; Interpreting timetables	<b>Algebra</b> - Inverse operations; Solve simple equations using number sentences; Introduce letters/shapes to represent numbers to move to basic substitution.	Y5	16	8	4	1	2
	GP5 Ch18	GP5 Ch19	GP5 Ch20	GP5 Ch21		GP5 Ch22	GP5 Ch23	GP5 Ch24	GP5 Ch25							
Year 6	<b>Backpacking Project</b> - This project looks at budgeting, world time zones, currency conversions and estimating. The project will be presented to the rest of the class and the pupils must use a variety of graphs and tables in their presentations. Thus the use of Excel and Powerpoint will be used.					Summer Exams	<b>Y6 Leavers Program</b>				Y6	7	6	2	1	2