



Thomson House School

Maths Medium Term Guide

Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12		
Autumn	Place Value <ul style="list-style-type: none"> Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Round any whole number to a required degree of accuracy <ul style="list-style-type: none"> Solve number and practical problems that involve ordering and comparing numbers to 10 000 000, rounding to a required degree of accuracy, using negative numbers and calculating intervals across zero Demonstrate an understanding of place value. 		Addition and subtraction <ul style="list-style-type: none"> Perform mental calculations with mixed operations to carry out calculations involving the four operations Solve addition and subtraction calculations (see calculation policy). Solve problems involving addition and subtraction Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy Solve multi-step problems in contexts, deciding which operations and methods to use and why. 		Multiplication and Division <ul style="list-style-type: none"> Perform mental calculations, including with mixed operations and large numbers Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Multiply one-digit numbers with up to two decimal places by whole numbers Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context. Use written division methods in cases where the answer has up to two decimal places Solve problems involving multiplication and division. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy 			Fractions <ul style="list-style-type: none"> Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form e.g. $1/4 \times 1/2 = 1/8$. Divide proper fractions by whole numbers e.g. $1/3 \div 2 = 1/6$ Associate a fraction with division and calculate decimal fraction equivalents e.g. know that 7 divided by 21 is the same as $7/21$ and that this is equal to $1/3$ and e.g. 0.375 is equivalent to $3/8$ 			Position and Direction <ul style="list-style-type: none"> -Describe positions on the full coordinate grid (all four quadrants) -Draw and translate simple shapes on the coordinate plane, and reflect them in the axis 		Consolidation	

			<ul style="list-style-type: none"> Solve problems which require answers to be rounded to specified degrees of accuracy 			
Spring	Decimals and percentages <ul style="list-style-type: none"> Demonstrate an understanding of place value including decimals e.g. $28.13 = 28 + ? + 0.03$ Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts e.g. one piece of cake that has been cut into 5 equal slices can be expressed as $\frac{1}{5}$ or 0.2 or 20% of the whole cake Solve problems involving the calculation of percentages e.g. of measures, and such as 15% of 360 and the use of percentages for comparison 	Algebra <ul style="list-style-type: none"> Use simple formulae e.g. perimeter of a rectangle or area of a triangle Generate and describe linear number sequences Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables 	Measure <ul style="list-style-type: none"> -Use, read, write and convert between standard units, converting measurements of length, mass, volume and time -Convert between miles and kilometres 	Perimeter, area and volume <ul style="list-style-type: none"> Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units e.g. mm^3 and km^3 	Ratio <ul style="list-style-type: none"> Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts e.g. find $\frac{7}{9}$ of 108. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples 	Consolidation
Summer	Properties of shape <ul style="list-style-type: none"> Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, 	Problem solving <ul style="list-style-type: none"> Use his/her knowledge of the order of operations to carry out calculations involving the four operations Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Solve problems involving addition, subtraction, multiplication and division 	Revision	SATS/Residential week	Investigations and projects Transition work for Year 7	

	<p>quadrilaterals, and regular polygons.</p> <ul style="list-style-type: none"> • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles 	<ul style="list-style-type: none"> • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. • SATs prep. 			
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Maths meetings used throughout the year when necessary to consolidate place value, counting and fluency of mental maths skills:

- Perform mental calculations, including with mixed operations and large numbers
- Written arithmetic practise for SATs
- Interpret and construct pie charts and line graphs and use these to solve problems
- Calculate and interpret the mean as an average
- KS2 time related TT statements.