



Thomson House School

Maths Medium Term Guide

Year 5

	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	Number- Place value <ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. Solve number problems and practical problems that involve ordering and comparing numbers to 1 000 000, counting forwards or backwards in steps, interpreting negative numbers and rounding. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. 			Number- Addition and Subtraction <ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers. Add and subtract whole numbers with more than 4 digits, including using formal written methods. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. 			Number- Multiplication and Division <ul style="list-style-type: none"> Recognise and use factor pairs and commutativity in mental calculations Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Multiply and divide numbers mentally drawing upon known facts. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. 				Statistics <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables, including timetables. 		Time <ul style="list-style-type: none"> Review Yr 4-time objectives. Solve problems involving converting between units of time.
Spring	Number- Fractions <ul style="list-style-type: none"> Compare and order fractions whose denominators are all multiples of the same number. Identify and name equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. 			Number- Decimals <ul style="list-style-type: none"> Read and write decimal numbers as fractions e.g. $0.71 = 71/100$, $8.09 = 8 + 9/100$. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Round decimals with two decimal places to the nearest whole number and to one decimal place. 			Number- Percentages <ul style="list-style-type: none"> Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. 		Number- Four Operations <ul style="list-style-type: none"> Review of all 4 operations. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. Solve problems involving multiplication and division, including scaling by simple 				

	<ul style="list-style-type: none"> Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number e.g. $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. 			<ul style="list-style-type: none"> Read, write, order and compare numbers with up to three decimal places Solve problems involving number up to three decimal places. 	<ul style="list-style-type: none"> Solve problems which require knowing percentage and decimal equivalents of $1/2, 1/4, 1/5, 2/5, 4/5$ and those fractions with a denominator of a multiple of 10 or 25. 	fractions and problems involving simple rates.		
Summer	Geometry- Angles <ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees ($^{\circ}$). Identify angles at a point and one whole turn (total 360°). Identify angles at a point on a straight line and $1/2$ a turn (total 180°). Identify other multiples of 90°. (Properties of Shape) 	Geometry- Position and Direction <ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. 	Geometry- Shapes <ul style="list-style-type: none"> Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. 	Number- Four Operations <ul style="list-style-type: none"> Review all 4 operations. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Use all four operations to solve problems involving measure e.g. length, mass, volume, money using decimal notation, including scaling. 	Geometry - Perimeter and Area <ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) 	Measures; Volume <ul style="list-style-type: none"> Estimate volume e.g. using 1 cm^3 blocks to build cuboids (including cubes) and capacity e.g. using water. Solve measure problems including volume. 	Assessments and Consolidation	

					and square metres (m ²) and estimate the area of irregular shapes			
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Maths meetings used throughout the year when necessary to consolidate place value, counting and fluency of mental maths skills:

- Multiplication and Division: Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers AND Establish whether a number up to 100 is prime and recall prime numbers up to 19
- Multiplication and Division: Recognise and use square numbers and the notation for squared (2) AND Recognise and use cube numbers and the notation for cubed (3).
- Number: Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.
- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
- Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).
- Time tables revision with a focus on the 6, 7, 8 and 12 times tables.