

MATHS MEDIUM TERM PLAN

Year 6 Term 2

Mental & Oral Starter Objectives

Number, Place Value and Rounding

- 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.
- Use negative numbers in context, and calculate intervals across zero.
- Solve number and practical problems.

Addition & Subtraction

- Add and subtract negative integers
- See also: Multiplication and division for problems involving all four operations.

Multiplication & Division

- Perform mental calculations, including with mixed operations and large numbers.
- Identify common factors, common multiples and prime numbers.

Fractions

- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
- Compare and order fractions, including fractions > 1 .
- Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
- Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

<u>Week 1</u>	<u>Week 2 & 3</u>	<u>Week 4 & 5</u>	<u>Week 6 & 7</u>	<u>Week 8</u>	<u>Week 9</u>	<u>Week 10 & 11</u>	<u>Week 12</u>	<u>Week 13</u>	<u>Week 14</u>
1.Number, Place Value and Rounding	2. Addition & Subtraction	3.Multiplication & Division	4.Fractions	5.Properties of shapes	6.Position, direction & movement	7.Measures	8.Statistics	9. Algebra	Assess & Review
<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. • Use negative numbers in context, and calculate intervals across zero. • Solve number and practical problems. 	<ul style="list-style-type: none"> • Add and subtract negative integers • See also: Multiplication and division for problems involving all four operations. 	<ul style="list-style-type: none"> • Perform mental calculations, including with mixed operations and large numbers. • Identify common factors, common multiples and prime numbers. • Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. • 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 	<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. • Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. 	<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, quadrilaterals, and regular polygons. • Illustrate and name parts of circles, including radius, diameter and 	<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 axes. 	<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. • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice 	<ul style="list-style-type: none"> • Interpret and construct pie charts and line graphs and use these to solve problems. • Calculate and interpret the mean as an average. 	<ul style="list-style-type: none"> • Use simple formulae. • 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. numbers, and proper fractions. 	

		<p>to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</p> <ul style="list-style-type: none"> • Use knowledge of the order of operations to carry out calculations involving the four operations. 	<ul style="list-style-type: none"> • Multiply simple pairs of proper fractions, writing the answer in its simplest form. • Divide proper fractions by whole numbers. 	<p>circumference and know that the diameter is twice the radius.</p> <ul style="list-style-type: none"> • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. 		<p>versa, using decimal notation to up to three decimal places.</p> <ul style="list-style-type: none"> • Convert between miles and kilometres. • 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 (cm³) 			
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						and cubic metres (m ³), and extending to other units.			
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