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Year 6 Maths Assessment

Number - Number & Place Value

Read, write, order and compare numbers to at least 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 problems and practical problems that involve ordering and comparing numbers to 10 000 000	
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Number - Addition and Subtraction

Perform mental calculations with mixed operations to carry out calculations involving the 4 operations	Solve multi step problems in contexts, deciding which operations and methods to use and why	Solve problems involving addition and subtraction	Use estimation to check answers to calculations and determine an appropriate degree of accuracy	
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Number - Multiplication and Division

Multiply multi digit numbers up to 4 digits by a two digit whole number using a formal written method	Divide numbers up to 4 digits by a two digit whole numbers using formal written method of long division and interpret remainders	Divide numbers up to 4 digits by a two digit whole numbers using formal written method of short division and interpret remainders	Perform mental calculations including mixed operations and large numbers	Identify common factors, common multiples and prime numbers
Use their knowledge of the order of operations to carry out calculations	Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why	Solve problems involving addition and subtraction, multiplication and division	Use estimation to check answers to calculations	

Number - Fractions

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	Multiply simple pairs of proper fractions writing the answer in its simplest form	Divide proper fractions by whole numbers
Associate a fraction with division and calculate	Identify the value of each digit in numbers given to	Multiply one digit numbers with up to two decimal	Use written division methods in cases where	Solve problems which require answers to be

decimal fraction equivalents	three decimal places and \times and \div by 10, 100 and 1000	places by whole numbers	the answer has up to two decimal places	rounded to specified degrees of accuracy
Recall and use equivalences between simple fractions, decimals and percentages including in different contexts				

Measurement

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three places	Use, read, write and convert between standard units converting measurements of length, mass, volume, and time from a smaller unit to a larger unit and vice versa	Convert between miles and km	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, cuboids using standard units			

Geometry - Properties of Shape

Draw 2D shapes using given dimensions and angles	Recognise, describe and build simple 3D 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 a circle, 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
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Geometry - Position and Direction

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			
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Statistics

Interpret and construct pie charts and line graphs and use these to solve problems	Calculate and interpret the mean as an average			
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Ratio and Proportion

Solve problems involving the relative sizes of two quantities where missing values can be found by using integer \times and \div facts	Solve problems involving the calculation of percentages eg of measures	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	
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Algebra

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
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6b = Year 6 beginning

6b+ = Year 6 beginning +

6w = Year 6 working within

6w+ = Year 6 working within +

6s = Year 6 secure

6s+ = Year 6 secure +

	6b	6b+	6w	6w+	6s	6s+
Autumn						
Spring						
Summer						