YEAR 5/6 MATHS OVERVIEW

Objectives taught for Year 6 only
Objectives taught for Year 5 only

Term 1	Topic - Maths	Skills/Objectives
	●Place value	Complete prior learning task: Recap numbers to 1,000 **Numbers to 10,000,000** 10/100/1,000/10,000/100,000 more or less Compare and order whole numbers to 10,000,000 **Divide powers of 10 into 2, 4, 5 and 10 equal parts** Missing numbers on numbers lines Compare and order whole numbers to 10,000,000 **Decimal numbers** Compare and order decimal numbers **Rounding numbers to 1,000,000** **Rounding decimals** **Multiplying and dividing by 10, 100 and 1000. Powers of 10.** Negative numbers Roman Numerals
	●Addition/subtraction	Complete prior learning task: Addition (Column method) Whole numbers and decimal numbers Addition in different contexts Subtraction (Column method) Whole numbers and decimal numbers Subtraction in different contexts
		Arithmetic Squared and cubed numbers BODMAS Mental addition Mental subtraction

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Term 2	Topic	Skills/Objectives
	• Addition/subtraction • Multiplication and division	Addition and subtraction with missing digits Solve multi-step addition and subtraction problems **Multiply up to a 4-digit number by a 1 or 2-digit number** Solve problems with multiplication **Short division and interpret remainders appropriately for context** Division using factors Introduction to long division Long division with remainders Solve problems with division Solve multi-step problems involving multiple operations
	• Fractions	**Fractions** Complete prior learning task: Exploring fractions Representing fractions (Year 3 RTP) Exploring fractions Shading fractions in shapes **Equivalent fractions – Find equivalent fractions and understand they have the same value in the linear number system** **Simplifying fractions – Recognise when fractions can be simplified and use common factors to do this** Converting improper fractions to mixed (Year 4 RTP) Converting mixed fractions to improper (Year 4 RTP) **Comparing fractions including those bigger than 1 (mixed and improper) – express these in a common denomination to do this and use this to compare**

	• Geometry	Coordinates (Year 4 RTP) Translation Symmetry (Year 4 RTP)
		Arithmetic **Multiples (including common multiples)** **Factors (including common factors)** Mental multiplication Mental division

Term 3	Topic	Skills/Objectives
	• Fractions	Ordering fractions (including mixed and improper) Adding and subtracting common, improper and mixed fractions with the same denominator (Year 4 RTP) and different denominators Multiplying and dividing fractions **Fractions of amounts – Find non unit fractions of quantities** Find Percentages of amounts Compare fractions, decimals and percentages **– recall decimal equivalents of ½, ¼, 1.5 and 1/10 and multiples of these. E.g. 2/10**
	• Geometry	Complete prior learning task: Look at 2D polygons including regular and irregular (Year 4 RTP) Identify parallel, adjacent and perpendicular lines Properties of triangles (Year 4 RTP) Properties of quadrilaterals Angles – classify and measure Angles – triangles, quadrilaterals, vertically opposite, on a straight line, around a point Circles

		Perimeter of rectangles, rectilinear and compound shapes **Area – Compare areas and calculate the areas of rectangles.** **Area of compound shapes, triangles and parallelograms**
		Arithmetic Find the mean Finding the Inverse Prime numbers

Term 4	Topic	Skills/Objectives
	• Geometry	Properties of 3D shape Nets Volume – cubic centimetres, volume of a cuboid, compare volume **Estimate, compare and draw angles with given degrees** **Draw, compose and decompose shapes according to given properties** Complete prior learning task: Statistics – Line graphs Statistics – Dual bar charts Statistics – Read and interpret pie charts Statistics – Read and interpret timetables and tables Statistics – Pie charts and percentages Measurement and conversion – Length, weight, capacity measure. Measurement and conversion – imperial to metric Measurement and conversion - Convert units of time and use timetables Metric and imperial measures

YEAR 5/6 MATHS OVERVIEW

Term 5	Topic	Skills/Objectives
		Begin splitting Year 5 and Year 6 for lessons: Year 5 – Place Value RTPs and Addition and Multiplication and Division RTPs Prior learning for place value **Recognise the value of each digit in numbers with up to decimal places.** **Reason about the location of any number with up to 2dp in the linear number system.** **Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know 100 hundredths are equivalent to 1 and that 1 is ten times the size of 0.01. Know that 10 hundredths are equivalent to 1/10.** **Divide one into 2, 4, 5 and 10 equal parts** **Convert between units of measure including common decimals and fractions** Prior learning for multiplication and division **Multiply and divide numbers by 10 and 100. Understand this as making a number 10 or 100 times the size or 1/10 or 1/100 of the size.** **Find factors and multiples of whole numbers. Including common factors and multiples** **Use a formal method for short multiplication. Up to 4 x 1 digit.** **Use a formal method for division. Up to 4 by 1 digit and interpret remainders appropriately for the context.** Year 6 – Focus on reasoning Algebra - Two step function machines Algebra - Solve up to two step equations Algebra - **Solve problems with two unknowns** **Solve problems involving ratio and proportion relationships** **Solve problems involving two unknowns** Make It Stick Learning (depending on what teachers feel needs to be addressed)

YEAR 5/6 MATHS OVERVIEW

Term 6	Topic	Skills/Objectives
		Year 5: Reasoning about geometry and fractions: Focus on RTPs: **Compare, estimate and measure angles in degrees and draw angles of a given size** **Compare areas and calculate the areas of rectangles** **Find non-unit fractions of quantities** **Find equivalent fractions and understand they have the same value in the linear number system** **recall decimal equivalents of ½, ¼, 1.5 and 1/10 and multiples of these. E.g. 2/10** Make it stick learning/investigations **Year 6:** Estimation and calculation work using calculators. **Focus on any RTPs -** (depending on what teachers feel needs to be addressed) Investigation based learning