



Personal **R**esponsibility **I**n **D**elivering **E**xcellence

Year 6 Maths Curriculum Content Overview

Year 6	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7
Autumn 1	Place Value		Calculation		Shape		<u>Assessment</u> Cornerstones
Objectives	<ul style="list-style-type: none"> • Read and write numbers to 10,000,000 and determine the value of each digit • Order numbers up to 10,000,000 • Compare numbers up to 10,000,000 using < and > symbols • Using a place value grid to move digits <p><i>Cover value of numbers in decimals to 3dp as MOS</i></p>	<ul style="list-style-type: none"> • Rounding any numbers accurately • Rounding any numbers accurately within a context • Problem solving involving negative numbers to understand their meaning • Calculating intervals involving negative numbers, including crossing zero 	<ul style="list-style-type: none"> • Column Addition – focus on numbers with differing numbers of digits and large numbers • Column subtraction – focus on numbers with differing numbers of digits and large numbers • Application of addition and subtraction to decimals • Long multiplication – working towards this ARE <p><i>Cover estimating as MOS</i></p>	<ul style="list-style-type: none"> • Short multiplication– working towards this ARE • Applying of multiplication to decimals • Short division • Long division (chunking) 	<ul style="list-style-type: none"> • <i>Address Y5 gaps alongside Y6 - could also be linked into vehicle work.</i> 	<ul style="list-style-type: none"> • Compare, classify and sort shapes. Recap shape vocabulary • Angles in a triangle • Angles in a quadrilateral • Using a protractor to measure and draw angles sizes within shapes • Drawing shapes using a ruler and protractor 	Assessment and Gaps teaching

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6
Autumn 2	Fractions, Decimals and Percentages				Algebra	
Objectives	<ul style="list-style-type: none"> • Must go back to pictorial and practical basics first and look at Y4 and Y5 objectives when planning this. • Simplifying fractions to their simplest form and also converting fractions to common denominators • To compare fractions to a half and whole • Ordering fractions by converting to common denominators • Comparing size of fractions by converting to common denominators • Converting between mixed and improper fractions and the inverse. 	<ul style="list-style-type: none"> • Must go back to pictorial and practical basics first and look at Y4 and Y5 objectives when planning this. • Adding/subtracting fractions by converting to common denominators – start with adding with the same denominator first to check understanding. • To add and subtract mixed numbers • To multiply fractions by whole numbers • To multiply fractions by fractions • To divide fractions by whole numbers <p>Converting between FDP has been moved to Spring due to timing but can be covered and planned for with AA or through battling the beast.</p>	<ul style="list-style-type: none"> • Must go back to pictorial and practical basics first and look at Y4 and Y5 objectives when planning this. • Adding/subtracting fractions by converting to common denominators – start with adding with the same denominator first to check understanding. • To add and subtract mixed numbers • To multiply fractions by whole numbers • To multiply fractions by fractions • To divide fractions by whole numbers 	<ul style="list-style-type: none"> • Start with basics (e.g. $a + b = 10$, what can a be? What can b be?) • LO – Can I solve a problem using missing numbers? (missing numbers and lengths) • LO – Can I solve a problem using missing numbers? (coordinates and angles). • LO – Can I use a formulae? • LO – Can I use a formulae to solve problems? 		

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Spring 1	Ratio and Proportion (plan at least 6 lessons)	Assessment and finish Ratio and proportion	Written Methods	Fractions and percentages of amounts	Area, volume, and perimeter and mean	
Objectives	<ul style="list-style-type: none"> • LO – Can I increase and decrease the size of shapes by a scale factor (including working out scale factors from given images) • LO – Can I alter recipes by different proportions? (altering recipes for different amounts) • LO – Can I use ratio to solve problems? (using images and bar modelling) • LO – Can I use ratio to solve problems? (using written methods) 	<ul style="list-style-type: none"> • LO – To use long division and interpret remainders • LO – To solve problems when the equals sign is in different places (arithmetic sessions) • LO – To solve problems (bar modelling) • LO – To solve problems (bar modelling) • LO – long multiplication 	Revision / Gaps teaching to ensure competency with all Y6 written methods for calculation.	<ul style="list-style-type: none"> • To find fractions of amounts • To find percentages of amounts 	<ul style="list-style-type: none"> • LO – I can convert different measurements? (length) • LO – I can convert different measurements? (weight and capacity) • LO – I can convert between metric and imperial units? • LO – To calculate the perimeter of a variety of shapes • LO – To calculate the area of a variety of shapes • LO – I can find the volume of a shape. • LO – I can find the volume of a shape • LO – To calculate the mean 	

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6		
Spring 2	Algebra		Fractions			Ratio		
Objectives	<ul style="list-style-type: none"> • LO – Can I solve a problem using missing numbers? (missing numbers and lengths) • LO – Can I solve a problem using missing numbers? (coordinates and angles). • LO – Can I use a formulae? • LO – Can I use a formulae to solve problems? • LO: Can I solve an equation? • LO: Can I solve problems using equations? (AA to progress onto problem solving but rest of the class may still be on solving simple equations). • LO – Can I solve an equation with two variables? • LO – Can I solve problems with two variables? (AA to progress onto problem solving but rest of the class may still be on solving simple equations). 		<p>This recaps from Autumn Term</p> <ul style="list-style-type: none"> • LO – To convert between mixed and improper (include SATs skill of converting answer to the same format as the question) (All answer context based questions) • LO – Can I add these fractions? (AA and AV to include mixed and improper) (BA stick to simple fractions independently) • LO – Can I subtract these fractions? (AA and AV to include mixed and improper) (BA stick to simple fractions independently) • LO – Can I multiply by a fraction (AV/BA – fraction x whole number) (AA – within problems) • LO – Can I use yesterday’s learning to multiply 2 fractions? All simplifying • LO – Can I share a fraction or is it impossible? (BA to do practically) • LO – I can solve a range of different problems involving fractions. (mixed/range of problems) 			<p>New content:</p> <ul style="list-style-type: none"> • LO – Confused – how can three different things mean the same? (FDP equivalents) • Converting fractions to decimals • Recall simple/known fraction, decimal and percentage equivalents • To work out unknown fractions, decimals and percentage equivalents 		<ul style="list-style-type: none"> • LO – Can I increase and decrease the size of shapes by a scale factor • (including working out scale factors from given images) • LO – Can I alter recipes by different proportions? (altering recipes for different amounts) • LO – Can I use ratio and proportion to solve problems? (bar modelling) • LO – Can I use ratio and proportion to solve problems? (bar modelling)

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Summer 1	Statistics			Position and Direction		
Objectives	<ul style="list-style-type: none"> • LO – I can construct a variety of charts (links to SATs papers – where the children complete partial ones). • LO – I can interpret pie charts. • LO - I can interpret line graphs. • LO – I can interpret bar charts. 			<ul style="list-style-type: none"> • Plot points in all 4 quadrants including finding missing co-ordinates • Translate shapes • Rotate shapes • Reflect shapes 		

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6
Summer 2	Gaps Teaching – Teaching and learning focused on ensuring competency with Y6 curriculum and end of KS2 expectations. Transition work and preparation for learning in KS3.					
Objectives						