

Year	Term	Half-term	Chapter/Book/Lesson	Topic	KS3 Ref		
Year One	Autumn term	1	1 Whole numbers and decimals (Number)	1B 1a	Place value and decimals	N1, N2	
				1B 1b	Multiply and divide by 10, 100 and 1000	Y5-N-MD-7, N4, N1	
				1B 1c	Negative numbers	N4, N2	
				2B 1b	Multiplying and dividing integers	N4	
				1B 1d	Mental methods of addition and subtraction	N4	
				1B 1e	Written methods of addition and subtraction	N4	
			1B 1f	Calculator methods1	N15		
			2 Measures, perimeter and area (Geometry and measures)	1B 2a	Length	G3, R1	
				1B 2b	Units of measurement	N12	
				2B 2a	Metric measure	R1, N12	
				1B 2c	Converting between metric units	R1	
				1B 2d	Perimeter	G1, G2	
				1B 2e	Area	G1	
			3 Expressions and formulae (Algebra)	1B 2f	Area of a rectangle	G1, G2	
				1B 2g	Area of a triangle	G1	
				1B 2h	Area of a parallelogram	G1	
				2B 3a	Simplifying and substituting	A1, A2, DF3, DF4	
				1B 3b	Expressions	A4, A3	
		1B 3c		Collecting like terms	A4		
		Case study	2B 3b	Indices	N7, A1		
			2B 3c	Like terms	A4		
			1B 3d	Using a formula	A2, DF5		
			1B 3e	Writing a formula	A6		
			1B 3f	Expressions and formulae	A6, A2, DF4		
			1B CS1	Case study 1: Dairy farm	RM1, SP4		
		2	4 Fractions, decimals and percentages (Number)	1B 4a	Fractions	Y5-N-FDP-1	
				1B 4b	Equivalent fractions	Y6-N-FDP-1, Y5-N-FDP-6, N4	
				1B 4c	Addition and subtraction of fractions	N4	
				1B 4d	Decimals and fractions	N9, N1	
				1B 4e	Fraction of a quantity	N11	
				1B 4f	Percentages	N10	
			Assessment	1B 4g	Percentage of an amount	N10	
				1B 4h	Fraction, decimals and percentages	N10, N9	
				1B	MyAssessment 1		
				5 Angles and 2D shapes (Geometry and measures)	1B 5a	Angle measure	Y5-G-PS-2
					1B 5b	Measuring angles	G3, G6
					1B 5c	Drawing lines and angles	G3
			1B 5d		Calculating angles	G10	
			1B 5e		Angles in a triangle	G7	
			1B 5f		Properties of triangles	G7	
			6 Graphs (Algebra)	1B 5g	Properties of quadrilaterals	G7, G5	
				1B 5h	Properties of polygons	G3, G5, G7, RM5	
				1B 6a	Coordinates	A8	
		1B 6b		Tables of values	A2, DF6		
		1B 6c		Plotting straight-line graphs	DF5		
		2B 6a		Drawing straight-line graphs	A8, A9, A10		
		Case study	1B 6d	Real life graphs	A9, A13, RM3, SP3		
			2B 6e	Time series graphs	S2		
			1B CS2	Case study 2: Recycling and energy	RM2, DF2		
			7 Whole number calculations (Number)	1B 7a	Rounding	N13	
1B 7b	Order of operations			N5			
2B 7c	Multiply and divide by powers of 10			N4, N1			
2B 7d	Mental multiplication and division	N4, DF2					
1B 7d	Written methods of multiplication	N4					
1B 7e	Written methods of division	N4					
1B 7f	Calculator methods 2	N15					
3 (Statistics and probability)	8 Statistics	1B 8a	Bar charts	S2			
		1B 8b	Reading and interpreting pie charts	S2			
		2B 8c	Pie charts	S2			
		1B 8c	Line graphs	S2			
		1B 8d	Mode, median and range	S1			
		1B 8e	The mean	S1			
	Assessment	2B 8f	Averages from frequency tables	S1, RM7			
		1B 8f	Interpreting graphs and charts	S2			
		1B 8g	Planning a statistical enquiry				
		1B 8h	Collecting data	RM7			
		1B 8i	Tally charts and frequency tables	S2			
		1B 8j	Comparing data	S1			
1B	MyAssessment 2						

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Year One	Spring term		9 Transformations and symmetry (Geometry and measures)	1B 9a	Reflection	G8
				1B 9b	Reflection symmetry	G5, G8
				1B 9c	Rotation	G8
				1B 9d	Rotation symmetry	G5, G8
				1B 9e	Translation	G8
				1B 9f	Tessellations	G8
			Case study	1B CS3	Case study 3: Rangoli	RM5
		10 Equations (Algebra)	1B 10a	Multiplying and dividing terms	A1	
			1B 10b	Balancing calculations	RM1	
			1B 10c	Simple equations	A7, N6	
			1B 10d	More simple equations	A7, N6	
			1B 10e	Two-step equations	A7, DF4	
		11 Factors and multiples (Number)	1B 11a	Factors and multiples	N3	
			1B 11b	Square numbers	N7	
			1B 11c	Square roots	N7	
			1B 11d	Prime numbers	N3	
			1B 11e	LCM and HCF	N3	
		12 Constructions and 3D shapes (Geometry and measures)	1B 12a	Constructing triangles 1	G9	
			1B 12b	Constructing triangles 2	G9	
			2B 12f	Scale drawings	R2, G3	
	1B 12d		Properties of 3D shapes	G15, DF7		
	1B 12e		Isometric drawings	G15		
	1B 12f		Nets of 3D shapes	G15, G1		
	2B 14c		Surface area of a cuboid	G1, G15		
	1B 12g		Volume	G1		
	Case study	1B CS4	Case study 4: Labyrinths and mazes	RM5		
	Assessment	1B	MyAssessment 3			
	Summer term	5	13 Sequences (Algebra)	1B 13a	Sequences	A14
				1B 13b	Sequence rules	A14
				1B 13c	Term-to-term rules	A14
				1B 13d	Position in a sequence	A14, A15
			14 Decimal calculations (Number)	1B 14a	Mental methods with decimals	N4, DF1
				1B 14b	Written methods of multiplying decimals	N4
				1B 14c	Written methods of dividing decimals	N4
			Case study	1B CS5	Case study 5: Electricity in the house	SP4, DF2, RM6
			15 Ratio and proportion (Ratio and proportion)	1B 15a	Proportion	R3, N10
				1B 15b	Direct proportion	R9
		1B 15c		Ratio	R4, R5	
		2B 15b		Division in a given ratio	R5, R7	
		1B 15d		Ratio and proportion problems	R6	
2B 15e		Percentage increase and decrease	N10, R8			
16 Probability (Statistics and probability)		1B 16a	The probability scale	DF7		
		1B 16b	More probability	DF7, P1		
		2B 16a	Listing outcomes	P4		
		1B 16c	Theoretical probability	P1		
		2B 16b	Probability	P1, P2, P4		
		1B 16d	Experimental probability	P1		
	2B 16d	Theoretical and experimental probability	P1, RM7			
	1B 16e	Sets	P3			
Case study	1B CS6	Case study 6: The school fair	SP2, SP3, RM7			
Assessment	1B	MyAssessment 4				
17 Everyday maths (Real life maths)	1B 17a	The swimming gala	DF2, RM2, SP4			
	1B 17b	The diving pool and ticket sales	RM1, RM5, SP2			
	1B 17c	Getting ready	DF1, RM2, SP3			
	1B 17d	The diving competition and the café	DF2, RM2, SP4			
	1B 17e	The invitation event	DF5, RM1, SP1			
1	1 Whole numbers and decimals (Number)	3B 1a	Powers of 10	N1, N8		
		3B 1b	Rounding	N13, N14		
		3B 1c	Factors, multiples and primes	N3		
		3B 1d	Estimating and approximating	N13, N14		
	2 Measure, perimeter and area (Geometry and measures)	3B 2a	Measures 1	R1		
		3B 2b	Measures 2	R1, N12		
		3B 2c	Area of a 2-D shape	G1		
		3B 2d	Circumference of a circle	G7, G2		
		3B 2e	Area of a circle	G7, G2		
		3B 2f	Compound measures	R10		
	3 Expressions and formulae	2B 3d	Expanding brackets	A4		
		3B 3a	Factors in algebra	A4		
		3B 3b	Algebraic fractions	DF5		

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Year Two	Autumn term	2	(Algebra)	3B 3c	Formulae in context	A2
				3B 3d	Rearranging formulae	A5
				3B 3e	Deriving and graphing formulae	A6
			Case study	3B CS1	Case study 1: Why do bikes have gears?	RM5, SP4
			4 Fractions, decimals and percentages (Number)	3B 4a	Adding and subtracting fractions	N4
				3B 4b	Multiplying fractions	N4, N11
				3B 4c	Dividing by fractions	N4, N11
				3B 4d	Decimals and fractions	N9
				3B 4e	Percentage change	N10, R8
				3B 4f	Percentage problems	DF2, DF5, R8
		Assessment	3B	My Assessment 1		
		5 Angles (Geometry and measures)	2B 5c	Angles in parallel lines	G11	
			3B 5a	Angle properties of a triangle	G10, G11	
			3B 5b	Angle properties of a quadrilateral	G13, G5	
			3B 5c	Angle properties of a polygon 1	G12, G5	
			3B 5d	Angle properties of a polygon 2	G12	
		6 Graphs (Algebra)	3B 5e	Congruent shapes	G6	
			3B 6a	Tables of values	A9	
			3B 6b	Drawing straight-line graphs	A9	
			2B 6b	Equation of a straight line	A9, A12	
3B 6c	Gradient of a straight-line graph		A11			
3B 6d	y-intercept of a straight-line graph		A11, A10			
3B 6e	The equation $y=mx+c$		A11, DF6			
3B 6f	Equations given implicitly		A11, A9, A12			
3B 6g	Real-life graphs		A13			
3B 6h	Distance-time graphs	A6, R10				
3B 6i	Time series	A6, S1				
Case study	3B CS2	Case study 2: Jewellery business	RM1, SP1, SP2			
Year Two	Spring term	3	7 Decimal calculations (Number)	3B 7a	Adding and subtracting decimals	N4
				3B 7b	Multiplying decimals	N4, DF2
				3B 7c	Dividing decimals	N4, DF2
				3B 7d	Using a calculator	N5, N15
				3B 7e	Interpreting the calculator display	N14, N15
			8 Statistics (Statistics and probability)	3B 8a	Planning a project	RM7
				3B 8b	Data collection	RM7
				3B 8c	Frequency tables	S2
				3B 8d	Statistical diagrams 1	S2
				3B 8e	Statistical diagrams 2	S3
		3B 8f		Calculating averages	S1	
		3B 8g		Interpreting graphs	S2, RM7	
		2B 8g		Scatter graphs and correlation	S3	
		3B 8h	Correlation	S3		
		3B 8i	Averages from grouped data	S1		
		3B 8j	Comparing distributions	S1, S2		
		2B 8h	Stem-and-leaf diagrams			
		3B 8k	Communicating the results of an enquiry	DF7		
		Assessment	3B	MyAssessment 2		
		9 Transformations and scale (Geometry and measures)	3B 9a	Transformations	G8	
3B 9b	Enlargements		G9			
3B 9c	Combinations of transformations		G8, G9			
3B 9d	Maps and scale drawings		R2			
3B 9e	Bearings	G3				
Case study	3B CS3	Case study 3: Climate change	DF7, RM7			
4	10 Equations (Algebra)	3B 10a	Solving equations	N6, A7		
		2B 10b	Solving multi-step equations	A7		
		3B 10b	Equations with brackets	A7, A4		
		3B 10c	Unknown on both sides	A7, A4		
		3B 10d	Constructing equations	A6, DF4		
	3B 10e	Trial and improvement	A2			
	11 Powers and roots (Number)	2B 11d	Order of operations	N5, N15		
		2B 1f	Squares and cubes	N7		
		3B 11a	Square roots and cube roots	N7, N16		
		3B 11b	Indices	A1		
3B 11c		Indices and surds	N15, N7			
3B 11d	Standard form for large numbers	N8				
3B 11e	Standard form for small numbers	N8, N12				
12 Constructions and Pythagoras (Geometry and	3B 12a	Constructing a triangle 1	G6, G9			
	3B 12b	Constructing a triangle 2	G6, G9			
	2B 12e	Loci				
3B 12c	Loci and constructions	G4				

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Year Two	Summer term		(Geometry and measures)	3B 12d	Pythagoras' theorem 1	G13, G14
				3B 12e	Pythagoras' theorem 2	G14
			Case study	3B CS4	Case study 4: Garden design	RM5, DF5
			Assessment	3B	MyAssessment 3	
		5	13 Sequences (Algebra)	3B 13a	Sequences and terms	A14
				3B 13b	Position-to-term rules	A15, DF3
				3B 13c	The general term	A14, A15
				3B 13d	Real life sequences	A14, A15, RM4
				2B 13d	Geometric sequences	A16
				3B 13e	Recursive sequences	A16
			14 3D shapes (Geometry and measures)	3B 14a	3-D shapes	G15, RM5
				3B 14b	Plans and elevations	G15
				3B 14c	Symmetry of a 3-D shape	
				3B 14d	Surface area of a prism	G1
				3B 14e	Volume of a prism	G1
			Case study	3B CS5	Case study 5: Golden rectangle	RM4, RM5, SP3
			15 Ratio and proportion (Ratio and proportion)	3B 15a	Direct proportion	R9
				3B 15b	Comparing proportions	N9, N10
				3B 15c	Ratio	R4, R5
				3B 15d	Uses of ratio	R2, R3
				2B 15d	Ratio and proportion	R9, RM2, R6
				3B 15e	Ratio and proportion problems	R6, R8, RM2
				3B 15f	Proportional reasoning	RM6, R9
		3B 15g	Financial maths 2: Living on a budget	SP2		
		6	16 Probability (Statistics and probability)	3B 16a	Prediction and uncertainty	P1
				3B 16b	Mutually exclusive events	P1
				3B 16c	Calculating probabilities	P2
				3B 16d	The outcomes of two trials	P4
				3B 16e	Experimental probability	P1
				3B 16f	Comparing theoretical and experimental probabilities	RM7
				2B 16e	Sets	P3
			Case study	3B CS6	Case study 6: Crime scene investigation	DF4, DF6
			Assessment	3B	MyAssessment 4	
17 Everyday maths (Real life maths)	3B 17a		The AfriLinks project	RM7		
	3B 17b	Building the schoolhouse	RM5, SP1, SP3, SP4			
	3B 17c	Laying the path	DF3, SP1, SP3, SP4			
	3B 17d	The basketball court	RM7, SP1, SP3, SP4			
	3B 17e	The school garden	RM2, SP1, SP3, SP4			