

Term/Half term	Chapter/Book/Lesson	Topic	KS3 Ref	
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 methods 1	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
			1B 2f Area of a rectangle	G1, G2
	3 Expressions and formulae (Algebra)	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	
		2B 3b Indices	N7, A1	
		2B 3c Like terms	A4	
	Case study	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	
		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	
	1B 4g Percentage of an amount		N10	
	1B 4h Fraction, decimals and percentages		N10, N9	
	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	
		1B 5g Properties of quadrilaterals	G7, G5	
		1B 5h Properties of polygons	G3, G5, G7, RM5	
	6 Graphs (Algebra)	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		
1B 6d Real life graphs		A9, A13, RM3, SP3		
2B 6e Time series graphs		S2		
Case study	1B CS2 Case study 2: Recycling and energy	RM2, DF2		
1	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	
	8 Statistics (Statistics and)	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	
		2B 8f Averages from frequency tables	S1, RM7	

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Spring term	probability)	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	
	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	
	2	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	
2B 14d		Volume of a cuboid	G1		
Case study		1B CS4	Case study 4: Labyrinths and mazes	RM5	
Summer term	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	
		1B 14d	Interpreting a calculator display	N15	
	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		
	2	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	
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		