

Term	Half	Chapter/Book/Lesson	Topic	KS3 Ref	
Autumn term	1	1 Whole numbers and decimals (Number)	1A 1a	Place value	N1
			1A 1b	Ordering whole numbers	N2
			1A 1c	Place value and decimals	N1
			2A 1e	Ordering decimal numbers	N1, N2
			1A 1d	Decimals and money	N12, DF1
			1A 1e	Adding decimals	N4
			1A 1f	Temperature	N2
			2A 1a	Negative numbers	N2
			1A 1g	Rounding and estimating	Y5-N-PV-4, N13
		1A 1h	Order of operations	N5	
		2 Measures, perimeter and area (Geometry and measures)	1A 2a	Measuring lines	G3, N12
			1A 2b	Reading scales	
			1A 2c	Time	Y5-M-6, Y6-M-2
			1A 2d	Shapes	G7, G3, DF7
			1A 2e	Perimeter	G1, G2
			1A 2f	Area	Y5-M-4
			1A 2g	Metric units	N12
			2A 2b	Metric and money conversions	N12, R1
		3 Expressions and formulae (Algebra)	1A 3a	Using letters 1	A1
	1A 3b		Using letters 2	A1, DF3	
	1A 3c		Adding with symbols	A4	
	1A 3d		Simplifying expressions	A4	
	1A 3e		Substitution	A2	
	2A 3d		Expanding brackets	A4	
	2A 3f		Formulae	A2	
	1A 3f	Creating a formula	A6		
	Case study	1A CS1	Dairy farm	RM1, SP4	
	2	4 Fractions, decimals and percentages (Number)	1A 4a	Writing fractions	
			1A 4b	Equivalent fractions	Y5-N-FDP-2
			1A 4c	Improper fractions	Y5-N-FDP-3
			2A 4b	Fractions and decimals	N9, N2
			1A 4d	Fractions of an amount 1	N11
			1A 4e	Fractions of an amount 2	N11
			2A 4c	Adding and subtracting fractions	N4
			1A 4f	Percentages	N10
			1A 4g	Finding percentages	N10
		1A 4h	Fractions, decimals and percentages	N9, N10, DF5	
		Assessment	1A	MyAssessment 1	
		5 Angles and 2D shapes (Geometry and measures)	1A 5a	Angles	Y5-G-PS-2
			1A 5b	Adding angles	G10
			1A 5c	Measuring angles	G3
			1A 5d	Finding angles at a point	G10
			1A 5e	Calculating angles	G10
			2A 5b	Opposite angles	G10
			2A 5e	Parallel lines	G5, DF7
			1A 5f	Properties of triangles	G7, G3, DF7
	1A 5g	Angles in a triangle	G7		
	1A 5h	Compass turns	R2		
	6 Graphs (Algebra)	1A 6a	Coordinates	A8	
		1A 6b	Coordinates with negative numbers	A8	
		2A 6b	Coordinates and straight lines	A9	
		2A 6c	Drawing graphs	DF6	
1A 6c		Reading graphs	A13		
1A 6d		Line graphs 1	S2		
1A 6e		Line graphs 2	S2		
2A 6f	Conversion graphs	R1, A12, RM3			
Case study	1A CS2	Recycling and energy	RM2, DF2		
7 Adding and subtracting (Number)	1A 7a	Mental methods of addition	N4		
	1A 7b	Mental methods of subtraction	N4, SP4		
	1A 7c	Written addition and subtraction 1	N4, DF2		
	1A 7d	Written addition and subtraction 2	N4, SP4		
	2A 7a	Order of operations	N5		
	2A 8a	Planning a survey	RM7		
	8 Statistics	1A 8a	Planning and collecting data		
		1A 8b	Organising data	S2	
		1A 8c	Reading lists and tables	Y5-S-2	
		1A 8d	Reading and drawing pictograms	S2	

Spring term	3	(Statistics and probability)	1A 8e	Reading and drawing bar charts	S2
			1A 8f	Reading pie charts	S2
			1A 8g	Reading diagrams	S2, RM7
			1A 8h	Averages - the mode	S1
			1A 8i	Averages - the median	S1
			2A 8g	The mean	S1
			1A 8j	Comparing data - range and average	S1, DF7
		Assessment	1A	MyAssessment 2	
		9 Transformations and symmetry (Geometry and measures)	1A 9a	Lines of symmetry	G5
			1A 9b	Reflection	G8
			2A 9a	Reflection	G8
			1A 9c	Translation	G8
			2A 9e	Translation	G8
			1A 9d	Rotation	G8
	2A 9d		Rotational symmetry	G8	
	1A 9e	Tessellations	G8		
	Case study	1A CS3	Rangoli	RM5	
	4	10 Equations (Algebra)	1A 10a	Operations	DF6
			1A 10b	Inverse operations	N6
			1A 10c	Using letters 3	N6, A7
			1A 10d	Equations 1	A7
			1A 10e	Equations 2	N6, A7, DF3, DF4
			2A 10c	Two-step equations	N6, A7
		11 Factors and multiples (Number)	1A 11a	Factors	N3
			1A 11b	Multiples	N3
			2A 1c	Common factors	N3
			1A 11d	Tests of divisibility	Y5-N-MD-1, N3
2A 1d			Prime numbers	N3	
1A 11c		Square Numbers	N7		
12 Constructions and 3D shapes (Geometry and measures)		1A 12a	3D shapes	DF7, G15	
	1A 12b	Nets of cubes	G15		
	1A 12c	Nets of other 3D shapes	G15		
	1A 12d	2D representations of 3D shapes	DF5		
	2A 14d	Surface area of a cuboid	G1, G2		
	2A 14e	Volume of a cuboid	G1		
	1A 12e	Measuring and drawing angles	G3		
	1A 12f	Drawing a triangle	G3, G9		
	2A 12c	Constructing a triangle 2	G9		
	1A 12g	Introducing circles	G7		
Case study	1A CS4	Labyrinths and mazes	RM5		
Assessment	1A	MyAssessment 3			
Summer term	5	13 Sequences (Algebra)	1A 13a	Sequences	Y5-N-PV-9
			1A 13b	Describing sequences	Y5-N-PV-9, Y6-A-2
			1A 13c	Using rules	A14
			1A 13d	Sequences with negative numbers	Y6-A-2, Y6-N-PV-3
			2A 13b	Position-to-term rules	A14, A15, RM4
		14 Multiplying and dividing (Number)	1A 14a	Multiplication	Y5-N-MD-5
			1A 14b	Multiplying by 10 and 100	Y5-N-MD-7, N1
			1A 14c	Mental methods of multiplication	N4
			1A 14d	Written methods of multiplication	N14, N4
			1A 14e	Mental methods of division	N4
	1A 14f		Division problems	N4	
	1A 14g	Written methods of division	Y5-N-MD-6, N4		
	1A 14h	Calculator skills	N15, N14, SP1		
	Case study	1A CS5	Electricity in the home	SP4, DF2, RM6	
	15 Ratio and proportion (Ratio and proportion)	1A 15a	Ratio and proportion	R4, R6	
		2A 15a	Simplifying ratios	R4	
		2A 15c	Proportion	R3	
		1A 15b	Ratio and proportion problems	R6, R9, RM2	
	1A 15d	Scale drawings	R2		
	6	16 Probability (Statistics and probability)	1A 16a	Introducing probability	DF7
1A 16b			The probability scale 1	DF7	
1A 16c			The probability scale 2	P1	
2A 16c			Equally likely outcomes	P1	
1A 16d		Sorting with Venn diagrams	P3		
Case study		1A CS6	The school fair	SP2, SP3, RM7	
Assessment	1A	MyAssessment 4			

Autumn term	1	17 Everyday maths (Real life maths)	1A 17a	The swimming gala	RM5, SP4
			1A 17b	The diving pool and ticket sales	SP2, SP3
			1A 17c	Getting ready for the gala	DF5, RM4
			1A 17d	The diving competition and the café	DF1, DF3
			1A 17e	The invitation event	RM1, DF5
	2	1 Whole numbers and decimals (Number)	3A 1a	Powers of 10	N1
			3A 1b	Rounding	N13
			3A 1c	Order of operations	N5
			3A 1d	Multiples, factors, divisibility and prime numbers	N3
			3A 1e	Prime factors, the HCF and the LCM	N3, P3
			3A 1f	Ordering decimals	N2, N1
		2 Measures, perimeter and area (Geometry and measures)	3A 2a	Metric measures	R1
			3A 2b	Imperial measures	R1
			3A 2c	Area	G1
			2A 2g	Shapes made from rectangles	G2
			3A 2d	Area of a triangle	G1
			3A 2e	Area of a parallelogram	G1
3 Expressions and formulae (Algebra)	3A 3a	Simplifying expressions.	A4		
	3A 3b	Using brackets	A2, A4		
	2A 3e	Simplifying harder expressions	A4		
	3A 3c	Formulae	A2, A5, N6		
Case study	2A 3g	Writing a formula	A6		
3	4 Fractions, decimals and percentages (Number)	3A CS1	Why do bikes have gears?	RM5, SP4	
		3A 4a	Adding and subtracting fractions 1	N4	
		3A 4b	Adding and subtracting fractions 2	N4	
		3A 4c	Fraction of a quantity	N11	
		3A 4d	Multiplying and dividing fractions	N4	
		3A 4e	Fractions and decimals	N9, DF5	
		3A 4f	Percentage of a quantity	N10	
		3A 4g	Percentage problems	N10, R8	
	Assessment	3A 4h	Repeated percentage change	N10, R8	
	5 Angles and 2D shapes (Geometry and measures)	3A	MyAssessment 1		
		3A 5a	Angles and lines	G10, G11	
		3A 5b	Angles in a triangle	G6, G7	
3A 5c		Properties of triangles	G7		
3A 5d		Angles in a quadrilateral	G12, G3		
3A 5e		Properties of quadrilaterals	G5		
6 Graphs (Algebra)		3A 6a	Horizontal and vertical lines	A8, A10	
	3A 6b	Tables of values	A6, RM1		
	3A 6c	Drawing straight line graphs	A8, A9		
	3A 6d	Problems solving using straight line graphs	A9, A12		
	3A 6e	Straight line rules	A10, A11		
	3A 6f	Interpreting real-life graphs	A13		
Case study	3A 6g	Time-series graphs	S2		
3	7 Calculations (Number)	3A CS2	Jewellery business	RM1, SP1, SP2	
		3A 7a	Addition and subtraction	N4	
		2A 7d	Addition and subtraction problems	DF2, N14, SP3	
		2A 11a	Written addition and subtraction	N4	
		3A 7b	Mental multiplication and division	N4	
		2A 7e	Multiplication and division problems	DF2, N14, SP1	
		3A 7c	Written multiplication	N4, N14	
		3A 7d	Written division	N4	
		3A 7e	Estimating and approximating	N13, N14	
	8 Statistics (Statistics and probability)	3A 7f	Using a calculator	N15, DF2	
		2A 11f	Interpreting the display	N15	
		3A 8a	Designing a survey	DF7	
		3A 8b	Collecting data	RM7	
		3A 8c	Frequency tables	S2	
		3A 8d	Bar charts	S2	
erm	3	3A 8e	Pie charts	S2	
		3A 8f	Calculating averages	S1	
		2A 8h	Averages from frequency tables	S1	
		3A 8g	Scatter graphs	S3	
		3A 8h	Stem-and-leaf diagrams	S1	
		3A 8i	Frequency diagrams	S1	
		2A 8i	Comparing data sets	S2	
3A 8j	Writing a statistical report	S1, RM7			

Spring term	4	Assessment	3A		MyAssessment 2	
		9 Transformations and symmetry (Geometry and measures)	3A	9a	Reflection and rotation symmetry	G8
			3A	9b	Reflection	G8
			3A	9c	Translation	G8
			3A	9d	Rotation	G8
			3A	9e	Enlargement	G9
			3A	9f	Enlargement through a centre	G9
			3A	9g	Scale drawings	R2
		Case study	3A	CS3	Climate change	DF7, RM7
	5	10 Equations (Algebra)	3A	10a	Equality and inequality	A3
			3A	10b	Solving equations	A7, DF3, DF4
			3A	10c	Balancing equations 1	A7, DF4
			3A	10d	Balancing equations 2	A7, DF4
			3A	10e	Writing equations	A6, A7
		11 Powers and roots (Number)	3A	11a	Square numbers and square roots	N7
			3A	11b	Using square numbers and square roots	RM4, N7
			3A	11c	Indices	N7, DF3
			3A	11d	Standard form	N8
		12 Constructions (Geometry and measures)	3A	12a	Using a protractor	G3, G9
3A	12b		Perpendicular lines	G5		
3A	12c		Perpendicular bisectors	G4		
3A	12d		Angle bisectors	G4		
3A	12e		Constructing triangles	G3		
3A	12f		Bearings	G3		
Case study	3A	CS4	Garden design	RM5, DF5		
Assessment	3A		MyAssessment 3			
Summer term	5	13 Sequences (Algebra)	3A	13a	Term-to-term rules	A14, A15
			3A	13b	Position-to-term rules	A15
			3A	13c	The n th term formula	A15
			2A	13c	Real life sequences	A14, A15
			2A	13d	Triangular numbers	A16
			3A	13d	Recursive sequences	A14, A15
		14 3D shapes (Geometry and measures)	3A	14a	Three-dimensional shapes	G15, DF7
			3A	14b	Nets	G15
			3A	14c	Plans and elevations	DF7
			2A	14b	Isometric drawings	RM5
			3A	14d	Volume of a cuboid	G1
			3A	14e	Shapes made from cuboids	G1, G2
	3A	14f	Surface area of a cuboid	G1		
	Case study	3A	CS5	Golden rectangle	RM4, RM5, SP3	
	6	15 Ratio and proportion (Ratio and proportion)	3A	15a	Ratio	R4
			3A	15b	Dividing in a given ratio	R5
			3A	15c	Ratio and proportion	RM2
			2A	15e	Ratio and proportion problems	R7, RM2
			3A	15d	Percentages and proportion	N10
			3A	15e	Proportional reasoning	S3
			2A	15f	Comparing proportions	N11, N9
			3A	15f	Living on a budget	SP2, SP4
	6	16 Probability (Statistics and probability)	3A	16a	Probability	P1
			3A	16b	Mutually exclusive events	P2
			3A	16c	Theoretical probability	P4
			3A	16d	Counting outcomes	P4
			3A	16e	Two events	P4
3A			16f	Probability experiments	P1	
2A		16e	Venn diagrams	P3		
Case study		3A	CS6	Crime scene investigation	DF4, DF6	
Assessment		3A		MyAssessment 4		
17 Everyday maths (Real life maths)		3A	17a	The AfriLinks project	RM7	
	3A	17b	Building the schoolhouse	RM2, SP1, SP2, SP3, SP4		
	3A	17c	Raising the roof and laying the path	DF2, SP1, SP3, SP4		
	3A	17d	The basketball court	DF2, SP1, SP4		
	3A	17e	The school garden	RM5, SP1, SP4		