

Mathematics – Year 7

	Topic	Mathswatch Clip	Resources
Term 1 & 2	7.01 Numbers and the number system	N1a, b and c	https://www.piximaths.co.uk/place-value
	Place value	N8	https://www.piximaths.co.uk/reading-and-interpreting-scales
	Reading scales		
	7.02 Counting and comparing	N11	https://www.piximaths.co.uk/multiples
	Multiples	N18	https://www.piximaths.co.uk/direct(negative)numbers
	Negative numbers		
	7.03 Calculating	N13a and 13b	https://www.piximaths.co.uk/four-operations
	Addition and subtraction	N5	https://www.piximaths.co.uk/four-operations
	Column methods	N15a and b	https://www.piximaths.co.uk/four-operations
	Multiplication and division	N28 a and b	https://www.piximaths.co.uk/four-operations
	Times tables		
	Multiplication		
	Division		
	7.04 Exploring and calculating fractions, decimals and percentages	N32	https://www.piximaths.co.uk/fdp-equivalence
		N36	https://www.piximaths.co.uk/fractions
	Convert between fractions, decimals and percentages	N34	https://www.piximaths.co.uk/fractions

Mathematics – Year 7

Topic	Mathswatch Clip	Resources
Add & subtract fractions Equivalent fractions		
7.05 Checking, approximating and estimating Rounding nearest 10, 100 or 1000 Rounding decimals	N27a N27b	https://www.piximaths.co.uk/rounding-and-estimating https://www.piximaths.co.uk/rounding-and-estimating
7.06 Investigating properties of shapes Symmetry Properties of shapes	G3 and G7 G14 and G16	https://www.piximaths.co.uk/symmetry https://www.piximaths.co.uk/symmetry
7.07 Measuring space Convert mm,cm,km Money calculations Perimeter of 2D shapes Area of 2d Shapes	R2 N7C G8b G20a and b	https://www.piximaths.co.uk/metric-unit-conversions https://www.piximaths.co.uk/money-calculations https://www.piximaths.co.uk/introduction-to-area-and-perimeter https://www.piximaths.co.uk/area-and-perimeter-using-formulae
7.08 Investigating angles	G10a	https://www.piximaths.co.uk/types-of-lines-and-angles

Mathematics – Year 7

	Topic	Mathswatch Clip	Resources
	Identify angles		
	7.09 Exploring time	N7b	https://www.piximaths.co.uk/time-calculations
	Read analogue and digital clocks	N7b	https://www.piximaths.co.uk/time-calculations
	Convert between 12 and 24 hour clocks	A21a	https://www.piximaths.co.uk/time-calculations
	Convert between days, hours, minutes, seconds		
	7.10 Mathematical movement	A1a	https://www.piximaths.co.uk/coordinates
	Co-ordinates	G5	https://www.piximaths.co.uk/translation
	Translations		
	7.11 Presentation of data	S2a and b	https://www.piximaths.co.uk/bar-charts
	Bar charts	S1a and b	https://www.piximaths.co.uk/pictograms
	Pictograms	S3	https://www.piximaths.co.uk/tally-charts
	Frequency Tables	S3	
	Tally charts		
Term 3 & 4	7.11 Numbers and the number system	N10, N11, N30	https://www.piximaths.co.uk/types-of-numbers
	Multiples, factors, primes		

Mathematics – Year 7

Topic	Mathswatch Clip	Resources
7.12 Counting and comparing	N18	https://www.piximaths.co.uk/negative-numbers
Negative numbers	N17a	https://www.piximaths.co.uk/four-operations
Multiply and divide by 10, 100 and 1000		
7.13 Calculating	N13a and b	https://www.piximaths.co.uk/four-operations
Addition & subtraction	N15a and b	
Multiplication & division		https://www.piximaths.co.uk/four-operations
7.14 Exploring and calculating fractions, decimals and percentages	N23	https://www.piximaths.co.uk/fdp-equivalence
	N32	https://www.piximaths.co.uk/fdp-equivalence
	N35	https://www.piximaths.co.uk/fractions
Equivalent fraction and simplifying fractions	N33	https://www.piximaths.co.uk/fractions
Convert fractions, decimals and percentages	N24b	https://www.piximaths.co.uk/percentages
	N36	https://www.piximaths.co.uk/fractions
Convert fractions from improper to mixed numbers	N37a	https://www.piximaths.co.uk/fractions
Find fraction of an amount		
Find percentage of an amount		
Add & subtract fractions with common denominator		

Mathematics – Year 7

Topic	Mathswatch Clip	Resources
Multiply fractions by whole numbers		
7.15 Checking, approximating and estimating	N27a N27b	https://www.piximaths.co.uk/rounding-and-estimating
Rounding to nearest 10, 100, 1000, 10 000, 100 000	R1a and b	https://www.piximaths.co.uk/rounding-and-estimating
Round decimals		https://www.piximaths.co.uk/simplifying-ratio
Ratio and proportion		https://www.piximaths.co.uk/dividing-into-a-ratio
7.16 Investigating properties of shapes	G12a, b and c	https://www.piximaths.co.uk/types-of-shapes-2D-and-3D
3D shapes, symmetry	G3 and G7	https://www.piximaths.co.uk/reflection-and-symmetry
7.17 Measuring and calculating space	R2	https://www.piximaths.co.uk/time-calculations
Convert mm, cm, km	G8b, G20a	https://www.piximaths.co.uk/area-and-perimeter-using-formulae
Perimeter and area	G21a	https://www.piximaths.co.uk/cubes-and-cuboids
Volume of cuboids	G4a	https://www.piximaths.co.uk/reflection-and-symmetry
Reflections	G5	https://www.piximaths.co.uk/reflection-and-symmetry
Translations		https://www.piximaths.co.uk/translations

Mathematics – Year 7

Topic	Mathswatch Clip	Resources
7.18 Investigating angles	G10a	https://www.piximaths.co.uk/types-of-lines-and-angles
Types of angles	G10b and c	
Draw and measure angles	N8	https://www.piximaths.co.uk/types-of-lines-and-angles
Reading scales		https://www.piximaths.co.uk/reading-and-interpreting-scales
7.19 Exploring time	N7B	https://www.piximaths.co.uk/time-calculations
Time	N21b	https://www.piximaths.co.uk/time-calculations
Timetables		
7.20 Presentation of data	S7	https://www.piximaths.co.uk/averages-mode-median-mean-range
Averages	S9	
Pie charts	S2a and b	https://www.piximaths.co.uk/bar-charts
Bar charts		
7.21 Probability	P1, P2	https://www.piximaths.co.uk/introduction-to-probability
Probability events	P5	
Probability scales		https://www.piximaths.co.uk/introduction-to-probability
7.22 Algebra	A1a	https://www.piximaths.co.uk/coordinates
Coordinates	N26	https://www.piximaths.co.uk/function-machines
Function machines		

Mathematics – Year 7

	Topic	Mathswatch Clip	Resources
Term 5 & 6	Numbers by 10, 100 and 1000	N10, N11, N30a	https://www.piximaths.co.uk/types-of-numbers
	Negative numbers	N17a	https://www.piximaths.co.uk/four-operations
		N18	https://www.piximaths.co.uk/directed-(negative)-numbers
	7.32 Checking, approximating and estimating	N27a	https://www.piximaths.co.uk/rounding-and-estimating
		N27b	
	Rounding to nearest 10, 100, 1000, 10 000, 100 000	N43a and b	https://www.piximaths.co.uk/rounding-and-estimating
	Rounding to decimal places		
	Estimation		https://www.piximaths.co.uk/rounding-and-estimating
	7.33 Calculating:	N13a and b	https://www.piximaths.co.uk/four-operations
	Addition and subtraction	N15a and b	https://www.piximaths.co.uk/four-operations
	Multiplication and division	N29a	https://www.piximaths.co.uk/four-operations
	Addition & subtraction	N20	https://www.piximaths.co.uk/order-of-operations
	Multiplication & division		
	Long division		
	Order of operations		

Mathematics – Year 7

Topic	Mathswatch Clip	Resources
7.34 Exploring and calculating fractions, decimals and percentages	N23a and b	https://www.piximaths.co.uk/fdp-equivalencies
Equivalent fraction	N36	https://www.piximaths.co.uk/fractions
Adding and subtracting fractions	N42a	https://www.piximaths.co.uk/fractions
Multiply fractions	N42b	https://www.piximaths.co.uk/fractions
Divide fractions	N24b	https://www.piximaths.co.uk/percentages
Percentage of amounts		
7.35 Algebraic proficiency: using formulae	A3	https://www.piximaths.co.uk/worded-formulae
Use simple formulae	R2	https://www.piximaths.co.uk/metric-unit-conversions
Convert between miles and kilometres		
7.36 Solving equations and inequalities	A17	https://www.piximaths.co.uk/solving-linear-equations
Linear equations		
7.37 Investigating properties of shapes	G12a, b and c	https://www.piximaths.co.uk/types-of-shapes-2D-and-3D
3D shapes	G19	
Angles in polygons	G2	https://www.piximaths.co.uk/interior-and-exterior-angles

Mathematics – Year 7

Topic	Mathswatch Clip	Resources
Parts of circles		https://www.piximaths.co.uk/properties-of-circles
7.38 Investigating angles Draw and measure angles Vertically opposite angles	G10a, b and c G18	https://www.piximaths.co.uk/types-of-lines-and-angles https://www.piximaths.co.uk/angles-in-parallel-line
7.39 Proportional reasoning Ratio and proportion	R1a and b R5a and b	https://www.piximaths.co.uk/simplifying-ratio https://www.piximaths.co.uk/dividing-into-a-ratio
7.40 Sequences/patterns Linear sequences	A11a, b and c	https://www.piximaths.co.uk/nth-term,-first-term,-sequences
7.41 Measuring and calculating space Convert metric units Area of parallelograms Area of triangles	N7a, b and c G20b G20c	https://www.piximaths.co.uk/metric-unit-conversions https://www.piximaths.co.uk/area-and-perimeter-using-formulae https://www.piximaths.co.uk/area-and-perimeter-using-formulae
7.42 Mathematical movement Coordinates Translations	A1a and b G5 G4a and b	https://www.piximaths.co.uk/coordinates https://www.piximaths.co.uk/translations https://www.piximaths.co.uk/reflections-and-symmetry

Mathematics – Year 7

Topic	Mathswatch Clip	Resources
Reflections		
7.43 Presentation and measuring data	S2a and b	https://www.piximaths.co.uk/bar-charts
Bar charts	S9	https://www.piximaths.co.uk/pie-charts
Pie charts	S7, S10a and b	https://www.piximaths.co.uk/averages
Averages		