## Long-term planning

## Maths - Year 8

Year 8 Themes	Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Further	Students will know	Students will know	Students will know	Students will know	Students will know	Students will know
develop	that	that	that	that	that	that
confidence	Percentage of	You can find terms of	Rounding to	Venn diagrams are	Horizontal and	Inequalities can be
and	amounts and	a sequence by finding	significant figures	used to visually	vertical lines are	represented on a
enjoyment of	percentage change	a term to term or	uses place vales.	represent the	described as x= or y=.	number line.
maths	can be found using	position to term rule.	Estimation is	differences and	To find the equation	Inequalities can be
	multipliers.	Ratios can be	calculated using	similarities of 2 or	of a line you find the	solved.
Build on year	Value for money is	simplified using	rounding to	more concepts.	gradient and the y	To expand double
7 skills and	found by comparing	common factors.	significant figures.	3D shapes can be	intercept.	brackets, you have to
prior	"unit" costs.	Ratios are used to	Midpoints of a line	described using their	To translate shapes,	multiply each of the
knowledge	There are rules for	share amounts that	are found by finding	properties (faces,	you use column	terms together.
and	indices when	are not equal.	the average of their	edges and vertices).	vectors.	To simplify an
understanding	multiplying and	Ratios are used in	coordinates.	3D shapes have a	To reflect shapes,	expression, you
	dividing.	drawing scale	To find the formula	net, with some	you need a line of	collect "like terms".
	To solve equations,	diagrams.	of a shape you	having multiple nets.	symmetry.	To add and subtract
	we use inverse		substitute the correct	To find the volume of	To find missing	fractions they must
	operations.		dimensions into a	a shape you	angles you need to	have the same
			formula.	substitute the correct	know angle facts.	denominator.
			Units of area use	dimensions into a	Draw pie charts you	To multiply or divide
			squared scale factors.	formula.	need to use	fractions they can
			Standard form is		proportion to find	have different
			used for very large		missing angles or	denominators.
			and small numbers.		frequencies.	To divide by a
					To draw a steam and	fraction, we multiply
					leaf diagrams the	by its reciprocal.
					data must be ordered	The rules for
					and have a key.	fractions apply to
						algebraic fractions.

					Recurring decimals repeat infinitely.
					To convert a fraction
					to a decimal we use
					division.
Students will know	Students will know	Students will know	Students will know	Students will know	Students will know
how	how	how	how	how	how
Use multipliers.	Generate terms of a	Round integers and	Draw and complete	Draw lines described	Read and draw
Solve proportion	sequence.	decimals using	Venn diagrams.	as y= or x=.	inequalities on a
problems in context.	Substitute into a	significant figures.	Interpret and find	Draw straight line	number line.
Apply index laws.	sequence to find a	Estimate calculations.	HCF, LCM or	graphs.	Solve single
Solve equations.	term.	Calculate midpoints	probabilities from a	Find the equation of	inequalities.
	Simplify ratios.	from coordinates.	Venn diagram.	a straight-line graph.	Expand double
	Share in a ratio.	Find the area shapes.	Describe 3D shapes	Translate and reflect	brackets.
	Converts ratios into	Identify parts of	by their properties.	shapes.	Calculate with
	percentages and	circles.	Find the surface are	Find missing angles.	fractions.
	fractions.	Write and calculate	and volume of cubes,	Draw and interpret	Calculate with mixed
	Draw and interpret	in standard form.	cuboids and prisms.	Pie charts.	numbers.
	scale diagrams.		Convert units of area.	Draw and interpret	Simplify algebraic
				Stem and Lead	fractions.
				diagrams.	Add and subtract
					algebraic fractions.
					Convert fractions to
					recurring decimals.
Vocabulary and the	Vocabulary and the	Vocabulary and the	Vocabulary and the	Vocabulary and the	Vocabulary and the
concepts they link to	concepts they link to	concepts they link to	concepts they link to	concepts they link to	concepts they link to
Multiplier	Arithmetic	Integer	Diagram	Horizontal	Inequality
Percentage	Term	Rounding	Nets	Vertical	Solve
Unitary	Simplify	Estimate	Surface area	Translation	Expand
Index / Indices	Equivalent	Area	Volume	Reflection	Algebraic
Inverse	Scale	Circumference			Recurring
Summative	Summative	Summative	Summative	Summative	Summative
Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
	End of term 1		End of term 2	End of year	End of term 3

Diversity &	Diversity &	Diversity &	Diversity &	Diversity &	Diversity &
development of	development of	development of	development of	development of	development of
cultural capital	cultural capital	cultural capital	cultural capital	cultural capital	cultural capital
Life Skills	"Create a scale	Writing and	Find and make	Islamic geometric	
Workshops:	drawing of the	comparing distances	examples of prisms in	patterns.	
Organise workshops	Parthenon in	to key planets or	everyday life, from	Traditional African	
on financial literacy.	Athens."	stars in the solar	their nets.	kente cloth.	
		system.			
Cross-curricular	Cross-curricular	Cross-curricular	Cross-curricular	Cross-curricular	Cross-curricular
opportunities and	opportunities and	opportunities and	opportunities and	opportunities and	opportunities and
enrichment	enrichment	enrichment	enrichment	enrichment	enrichment
	Maths Week England	Euler's Number Day	Pi Day	Junior UKMT	My Money Week
	Fibonacci Day	NSPCC Number Day		Square Root Day	Pythagoras' Theorem
				Women in Maths Day	Day
				National Numeracy	
				Day	