## Long-term planning

## Maths - Year 7

Year 7 Themes	Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
memes	Students will know	Students will know	Students will know	Students will know	Students will know	Students will know
Developing	that	that	that	that	that	that
confidence	BIDMAS is the order	Algebra is accessible	The difference	Fractions are parts of	Angles are measured	Fractions, decimals
and	of operations.	and follows the same	between perimeter	a whole.	in degrees.	and percentages all
enjoyment of	Integers can be	rules as numbers.	(length) and area.	Fractions have	There are 3 types of	have equivalent
maths	positive or negative.	Time is measured in	Numbers have many	equivalent values.	average.	values.
		blocks of 60's.	different properties	Single brackets can	Data needs to be	Probability uses
			and can be classified	be expanded and also	reliable.	fractions, decimals
			by these.	factorised.		and percentages.
	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 both calculator	Understand and write	Find perimeter and	Write, compare, add	Draw, measure and	Multiply and divide
	and non-calculator	algebraic expressions,	area of 2D shapes	and subtract fractions	calculate angles	fractions, find
	methods to complete	substitute into	Plot shapes using	Expand and factorise	Calculate averages	fractions of an
	operations	algebraic expressions	coordinates	single brackets	and range from data	amount
	Round to a given	and solve simple	Identify types of		Use data tables and	Compare and order
	degree of accuracy	equations	numbers using		charts to collect and	fractions, decimals
	Calculate with	Use and calculate	factors, multiples and		present data	and percentages
	directed number	with measures of	primes		Solve proportion	Use theoretical
	Apply commutative	units and time			word problems	probability
	and associative laws					
	to operations.					
	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
	Integer	Substitute	Length	Equivalent	Acute	Reciprocal
	Operation	Expression	Area	Simplify	Obtuse	Convert
	Calculate	Linear	Congruent	Factorise	Range	Probability
	Root	Measure	Vertex (Vertices)	Expand - ·	Average	Mutually Exclusive
	Power	Conversion	Axis (Axes)	Expression	Proportion	Sample Space

Summative	Summative	Summative	Summative	Summative	Summative
Assessment	Assessment	Assessment	Assessment	Assessment	Assessment
Sparx Baseline	Sparx Shadow	End of term 1	End of term 2	End of year	End of term 3
	baseline				
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
Alan Turing and the	Problems involving	Piet Mondrian – how	Earliest examples of	Calculating averages	Probability in real life
history of Bletchley	different time zones	we can use maths to	fractions and	with real life data	<ul> <li>Betting odds and</li> </ul>
Park		understand his work	historical systems		statistical models in
					football
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	